2025/26 CATALOG

PALOMAR COLLEGE®
Learning for Success

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Introduction and Accreditation

2025 - 2026 CATALOG, Volume LXXIV

Palomar Community College District
1140 West Mission Road, San Marcos, California 92069-1487
760-744-1150 | https://www.palomar.edu

Palomar College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges (331 J Street Suite 200, Sacramento, CA 95814, phone (415) 506-0234), an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education. Full credit is given by the University of California, the California State Universities, and other major colleges and universities. Academic programs with external accreditation include Dental Assisting, accredited by the Commission on Dental Accreditation of the American Dental Association and by the Dental Board of California; Fire Technology, accredited by the California State Fire Marshall, State Fire Training; Nursing Education, approved by the Board of Registered Nursing and accredited by the Accreditation Commission for Education in Nursing; Paramedic Program, accredited by the committee on Accreditation of Educational Programs for Emergency Medical Services Professionals; and the Basic Police Academy, accredited by the California Commission on Peace Officer Standards and Training; Alcohol and Other Drug Studies is accredited by the California Association of Alcohol and Drug Educators (CCADE) and the California Consortium of Addiction Programs and Professionals (CCAPP).

Palomar College holds membership in the Community College League of California (CCLC), the American Association of Community Colleges (AACC) and the Hispanic Association of Colleges and Universities (HACU). The College is approved for training of veterans and service members and is authorized under federal law to enroll nonimmigrant alien students. Accreditation information is available in the office of the Superintendent/ President.

Palomar College endeavors to present itself and its programs to the public accurately and fairly. To this end, the College subscribes to a policy of truth in advertising. Those responsible for the preparation of this catalog, the class schedule, and all other announcements for public consumption make every effort to assure that the information presented is correct and up to date. However, the College reserves the right to add, amend, or repeal any rules, regulations, policies, and procedures. The College assumes no responsibility for program changes and/or publication errors beyond its control.

Requirements and courses in this catalog are effective with the Fall 2025 semester.

Welcome to Palomar College!

At Palomar, we empower over 29,000 students of diverse backgrounds to achieve their goals by providing a wide variety of degrees, certificates and transfer options and the most valuable career education programs of any higher education institution in our region. Your educational success is our top priority!

In this catalog you will find programs and courses designed with you in mind, opportunities to expand your horizon, meet the requirements of your chosen field, and prepare you for the demands of the workforce. Whether your goal is earning an associate degree, transferring to a four-year university, being trained for a specific career, or gaining valuable skills to elevate your position in the job market, Palomar makes it possible!

Palomar is home to an exceptional team of faculty, staff and administrators who are dedicated to your success. Many of our student clubs and organizations are among the finest of any community college and offer you a great opportunity to engage with your peers. While you are here, you will be able to take advantage of the many valuable student support services and programs, including counseling, health services, financial aid, veteran services, tutoring and career guidance.

The information in this catalog will help you achieve your educational goals by explaining our academic policies, course offerings and support services. You will also learn what is expected of you as a Palomar student. We encourage you to familiarize yourself with this publication and reference it during the year.

At Palomar College, we are dedicated to helping you achieve your goal, within your budget, on a schedule that works best for you.

Best Wishes for a Fantastic Year,
Star Rivera-Lacey

Star Rivera-Lacey, Ph.D.
Superintendent/President

¡Bienvenido a Palomar College!

En Palomar, empoderamos a más de 29,000 estudiantes de diversos orígenes para que alcancen sus metas, ofreciéndoles una amplia variedad de títulos, certificados, opciones de transferencia y los programas de educación profesional más valiosos de cualquier institución de educación superior en nuestra región. ¡Tu éxito educativo es nuestra máxima prioridad!

En este catálogo encontrarás programas y cursos diseñados pensando en ti, oportunidades para ampliar tus horizontes, cumplir con los requisitos de tu campo de interés y prepararte para las demandas del mercado laboral. Ya sea que tu objetivo sea obtener un título de asociado, transferirte a una universidad de cuatro años, capacitarte para una carrera específica o adquirir habilidades valiosas para mejorar tu posición en el mercado laboral, ¡Palomar lo hace posible!

Contamos con un equipo excepcional de profesores, personal y administradores dedicados a ayudarte a alcanzar el éxito. Muchos de nuestros clubes y organizaciones estudiantiles se hallan entre los mejores de cualquier colegio comunitario y te ofrecen una gran oportunidad para interactuar con tus compañeros. Mientras estés aquí, podrás aprovechar los muchos y valiosos servicios y programas de apoyo estudiantil, que incluyen consejería, servicios de salud, ayuda financiera, servicios para veteranos, tutoría y orientación profesional.

La información en este catálogo te ayudará a alcanzar tus metas educativas al explicarte nuestras normativas académicas, la oferta de cursos y los servicios de apoyo. También aprenderás lo que se espera de ti como estudiante de Palomar. Te invitamos a familiarizarte con esta publicación y la utilices como referencia durante el año.

En Palomar College, nos comprometemos a ayudarte a cumplir con tus objetivos dentro de tu presupuesto y en el horario que mejor te convenga.

Deseándote un fantástico año escolar,
Star Rivera-Lacey

Star Rivera-Lacey, Ph.D.
Superintendente/Presidente

Academic Freedom

The District encourages freedom of expression and the free flow and exchange of information and ideas. The District seeks to protect academic freedom and supports free and unfettered scholarly inquiry for all constituencies.

The instructional program at Palomar College shall be conducted in accordance with principles of academic freedom of expression and inquiry within the framework of rights and responsibilities

The District considers academic freedom, defined by its attendant rights and responsibilities, as a vital, primary force in the achievement of the aims and objectives of the institution. Academic freedom inherently involves the following rights and responsibilities:

- To research to the limit of competence and training, the as-signed teaching area and its references
- To question and challenge, without fear of censorship or discipline, those actions originating from within the institution which seriously affect the total academic environment
- To introduce, within the assigned teaching area, controversial concepts, issues, and systems, subjecting these ideas to the test of reasoned inquiry
- To create free and clear intellectual atmosphere democrati-cally maintained, encouraged, and supported by students, staff, administration, and members of the Governing Board
- To associate with those individuals or groups of one's choice without fear of censorship or discipline, unless such association is forbidden by law
- To speak or write publicly, free of prior censorship or sub-sequent discipline by the college or District, as a citizen on matters of public concern
- To make reasonable efforts to be accurate in public statements about college and District matters, and to indicate that they write or speak as public citizens and not as spokespersons of the institution

At no time will the inherent right of faculty members to use any of the normal channels of campus communication be abridged, nor will individual faculty members be singled out for prior censorship of their use of such channels of communication. It is understood that faculty members exercising this right will accept responsibility for both the substance and the manner of their messages. In compliance with these principles, the District encourages faculty, staff, and student involvement with others in support of candidates for offices or in the furtherance of other political activities, as long as no District resources are used for these purposes.

This policy will be published in the District catalog annually and disseminated to the employees of the District no less than annually and whenever it is amended.

College Calendar

Summer Session 2025

Event	Date
4 week (1) classes begin	June 02
Residence determination date	June 14
8 week (1) classes begin	June 02
6 week session begin	June 16
Juneteenth (observed)	June 19
4 week (1) classes end	June 28
4 week (2) classes begin	June 30
Last day to apply for an Associate degree, Certificate of Achievement, or Certificate of Proficiency	June 30
Independence Day (observed)	July 04
6 week session end	July 26
4 week (2) classes end	July 26
4 week (3) classes begin	July 28
8 week (1) classes end	July 26
4 week (3) classes end	August 23

Fall Session 2025

Event	Date
First day applications accepted	October 1, 2024
Registration begins	May 12
All College Day	August 22
Residence determination date	August 24
Classes begin	August 25
Labor Day	September 01
Last day to drop full semester-length classes with no grade placed on permanent record	September 07
Native American Day	September 26
Last day to apply for an Associate degree, Certificate of Achievement, or Certificate of Proficiency	September 30
Last day to drop full semester-length classes with 'W'	October 13
Veterans' Day (observed)	November 11
Non-instructional days	November 24-26
Thanksgiving Holidays	November 27-28
Non-instructional day	November 29
Fall semester ends	December 20
Semester break/Professional development	Dec 23 -Jan 2

Winter Session 2026

Event	Date
Classes begin	January 5
Classes end	January 31

Spring Session 2026

Event	Date
First day applications accepted	September 01, 2025
Registration begins	November 03
Martin Luther King, Jr. Day	January 19
All College Day	January 22
Residence determination date	January 25
Classes begin	January 26
Lincoln's Day	February 13
Non-instructional Day	February 14
Last day to drop full semester-length classes with no grade placed on permanent record	February 08
Washington's Day	February 16
Last day to apply for an Associate degree, Certificate of Achievement, or Certificate of Proficiency	February 28

Event	Date
Last day to drop full semester-length classes with 'W'	March 16
Spring recess	March 23-27
Non-instructiponal Day	March 28
Commencement	May 22
Spring semester ends	May 23
Memorial Day	May 25

Department Contacts

College Leadership and Academic Divisions

District Governing Board

Yvette Marie Acosta
Holly Hamilton-Bleakley, Ph.D.
Jacqueline Kaiser
Judy Patacsil, Psy.D.
Roberto Rodriguez
Student Trustee

Superintendent/President

Superintendent/President
Star Rivera-Lacey, Ph.D. - Ext. 2521

Director of Communications, Marketing and Public Affairs
Julie Lanthier Bandy, MPA - Ext. 2365

Foundation Executive Director
Stacy Rungaitis, M.S.- Ext. 2733

Senior Director of Institutional Research and Planning
Michelle A. Barton - Ext. 2360

Chief Diversity Officer
Nicole Belisle, Ph.D. - Ext. 3648

Instructional Services

Assistant Superintendent/Vice President
Tina Recalde, DPT, MS, ATC, CSCS - Ext. 2246

Division of Arts, Media, and Business Administration

Justin Smiley, Dean - Ext. 2154
Art Department - Ext. 2302
Business Administration Department - Ext. 2488
Graphic Communications Department - Ext. 2452
Media Studies Department - Ext. 2440
Performing Arts Department - Ext. 2316

Division of Career, Technical, and Extended Education

Nichol Roe, Dean - Ext. 2276
Design and Manufacturing Technologies Department - Ext. 2349
Emergency Medical Education - Ext. 8150
Public Safety Programs - Ext. 1722
Trade and Industry Department - Ext. 2545

Wendy Nelson, Interim Associate Dean, Workforce Development and Extended Studies - Ext. 2600
Apprenticeship Programs - Ext. 2600
Continuing Education - Ext. 2284
Cooperative Education - Ext. 2354
Military Leadership - Ext. 2687

Division of Instruction

Jenny Fererro, Ed.D., Dean - Ext. 2314
Instruction Office - Ext. 2246
Instructional Design - Ext. 3643

Glyn Bongolan, Ed.D., Interim Associate Dean, Dual Enrollment - Ext. 3636

Division of Languages and Literature

Leanne Maunu, Ph.D., Dean - Ext. 2252
English, Humanities, and Reading Department - Ext. 2392
English as a Second Language Department - Ext. 2261
Library and Information Technology - Ext. 2612
Library/Learning Resource Center - Ext. 2612
Speech Communication/Forensics/ASL Department - Ext. 2405
World Languages Department - Ext. 2390

Division of Mathematics, Science, and Engineering

John Escobedo, Ph.D., Dean - Ext. 2254
Dental Assisting Program - Ext. 2571
Nursing Education Department - Ext. 2580
Biology Department - Ext. 2275
Chemistry Department - Ext. 2505
Computer Science and Information Technology Department - Ext. 2387
Earth, Space and Environmental Sciences Department - Ext. 2512
Mathematics Department - Ext. 2535
Physics and Engineering Department - Ext. 2505

Division of Social and Behavioral Sciences

Diane Studinka, Ed.D., Dean - Ext. 2758
Academic Technology Resource Center - Ext. 2862
American Indian Studies Department - Ext. 2425
Behavioral Sciences Department - Ext. 2329
Child Development and Education Department - Ext. 2206
Early Childhood Education Lab School - Ext. 2575
Economics, History, and Political Science Department - Ext. 2412
Ethnic Studies Department - Ext. 2206

Health and Kinesiology Department - Ext. 2459
Tutoring Services Program - Ext. 2448

Palomar College Locations

Tom Medel, Director, Education Center - Ext. 8103
Escondido Education Center - Ext. 8134
Rancho Bernardo Education Center - Ext. 8664

Ryan Williams, Director, Education Center - Ext. 7821
Fallbrook Education Center - Ext. 8464
Camp Pendleton Site - Ext. 7818

College Support Department Contacts

Student Services

Nick Mata, Assistant Superintendent/Vice President - Ext. 2158

Athletics

Daniel Lynds, Director - Ext. 2464

Campus Police

Christopher Moore, Chief of Police - Ext. 3971
Campus Police Dispatch - Ext. 2289 or 760-891-7273

Counseling Services

Leslie Salas, Ed.D., Dean - Ext. 2652
Access Technlogy Center - Ext. 2375
California Work Opportunity & Responsibility to Kids (CalWorks) - Ext. 2449
Career Center - Ext. 2194
Cooperative Agencies Resources for Education (CARE) - Ext. 2449
Counseling Center - Ext. 2680
Disability Resource Center - Ext. 2375
Dreamer Success Program - Ext. 2392
Educational Talent Search - Ext. 8130
Extended Opportunity Programs and Services - Ext. 2449
Foster Youth Retention, Success & Transition/NextUp Program - Ext. 2449
Gaining Early Awareness and Readiness for Undergraduate programs (GearUP) - Ext. 3620
North County Educational Opportunity Center (NCEOC) - Ext. 2434/ 8110
Pride Center - Ext. 2396
Puente Project - Ext. 2975
Transfer Center - Ext. 2552
TRiO Student Success & Support - Ext. 2671
UMOJA Program - Ext. 2392
Upward Bound - Ext. 8124

Enrollment Services

Amanda Horn, Dean - Ext. 2171
Admissions and Enrollment - Ext. 2164
Dual Enrollment - Ext. 2274
Evaluations and Graduation - Ext. 2165
Financial Aid and Scholarships - Ext. 2366
International Education - Ext. 2167
Outreach Services - Ext. 3756
Palomar Promise - Ext. 3931
Student Records and Transcripts - Ext. 2169
Veterans' Resource Center - Ext. 2173

Health Services

Patrick Savaiano, Psy.D., Director, Behavioral Health & Wellness - Ext. 2642
Behavioral Health Counseling Services - Ext. 2626
Health Promotion - Ext. 3711
Vacant, Director, Student Health Center - Ext. 2671
Student Health Center - Ext. 2380

Student Life & Leadership

Vacant, Dean - Ext. 2594
Basic Needs - Ext. 2529
Food & Nutrition Center - Ext. 2529

Finance and Administrative Services

Chris Yatooma, Interim Assistant Superintendent/Vice President - Ext. 3409
Business and Contract Services - Ext. 2122
Cashier Services - Ext. 2114
Facilities - Ext. 2629
Fiscal Services - Ext. 2215
Information Services - Ext. 2140
Payroll Services - Ext. 2937

Human Resource Services

Anna Pedroza, M.A., Assistant Superintendent/Vice President - Ext. 2203
Human Resource Services - Ext. 2609

District Policies

Governing Board and District Policy

In accordance with its designated function as a policy-making body, the Governing Board of the Palomar Community College District creates the policies by which the district operates, subject to the Education Code of the State of California, all rules prescribed by the Board of Governors of the California Community Colleges, and all federal statutes. Board policy may be changed, subject to the Education Code of the State of California, only by action of the Governing Board through a majority vote of its members.

The Governing Board holds its Regular Open Meetings in the Board Room on campus at 5:00 p.m. on the first Tuesday of the month. Meetings are open to the public.

Commitment to Diversity

The District is committed to employing qualified faculty, staff, and administrators who are dedicated to student success. The Governing Board recognizes that diversity in the academic environment fosters cultural awareness, promotes mutual understanding and respect, and

provides suitable role models for all students. The Governing Board is committed to hiring and staff development processes that support the goals of equal opportunity and diversity and provide equal consideration for all qualified candidates (BP 7100 Commitment to Diversity).

Palomar College is committed to equal opportunity in educational programs, employment, and all access to institutional programs and activities. In addition, all students have the right to participate fully in the educational process, free from discrimination and harassment and equal access to all services, classes, and programs.

Visit the District's equal employment opportunity website at www.palomar.edu/hr/eeo for information about the the District's nondiscrimination policies and procedures, unlawful discrimination complaint filing, and Equal Employment Opportunity Plan.

The Assistant Superintendent/Vice President, Human Resource Services is the Responsible District Officer pursuant to the California Code of Regulations, Title 5, § 59324 for receiving complaints of unlawful discrimination and coordinating their investigtation or informal resolution.

To file an unlawful discrimination complaint or ask questions about the complaint filing process confidentially, please refer to the following contact information:

- Phone: (760) 744-1150 ext. 2608
- Email: eeotitleix@palomar.edu
- In person: room A-1 in the Administrative Services building

Designation of Responsible Employee as Title IX Coordinator (Sexual Misconduct and Gender Discrimination)

The Assistant Superintendent/Vice President, Human Resource Services is designated as the District's primary Title IX Coordinator.

This position is responsible for responding to incidents of sexual misconduct and gender discrimination, including the coordination of complaint filing and resolution processes, investigations, and resources and support services. The Manager, Equal Employment Opportunity and Compliance is also a designated Title IX Coordinator for the District.

Title IX prohibits the following actions related to the educational programs and employment at Palomar College, whether they are actual, attempted, or threatened:

- Sexual harassment
- Sexual violence
- Domestic violence
- Dating violence
- Stalking

The Title IX office at Palomar College is dedicated to providing resources, complaint filing options, and academic or employment support assistance in accordance with each student's and employee's choices. These services are provided confidentially to the extent provided by law with an emphasis on protection from retaliation.

If you wish to report an incident, need resources or other support, or have questions, please contact the Title IX office as follows:

- Phone: (760) 744-1150 ext. 2608
- Email: eeotitleix@palomar.edu
- In person: room A-1 in the Administrative Services building
- For more information and resources, please visit www.palomar.edu/titleix

Educational Philosophy

The educational philosophy of Palomar College is based upon belief in the value of the individual and belief in the individual's potential for intellectual, ethical, personal, and social growth. Only through growth in these areas and responsible examination of the question of personal rights can the rights of an individual in a democratic society be fully understood.

The fundamental assumption of the democratic way of life is the intrinsic worth of the individual. This assumption, therefore, becomes the fundamental principle of public education in a democratic community.

In order to become an effective member of a democratic society, an individual must take part in a free exchange of ideas. Only within a free society is the individual assured this free exchange of ideas and the maximum freedom of choice and opportunity for self-realization consistent with the freedoms and opportunities of others. Only within a free society can the human personality attain its greatest stature.

The community college, by providing equal opportunities for individuals to develop their differing abilities and interests, enables students to realize more fully their potentials. Thus, their talents become more readily available to the community, and their participation in society becomes more effective.

In keeping with this educational philosophy, Palomar Community College District declares itself a safe haven for learning and reaffirms its unequivocal support of all students regardless of race, religion, national origin, immigration status, sexual orientation, family structure, or gender identity.

History of the College

Palomar College has a history rich in tradition and educational achievements. On January 15, 1946, registered voters in the Vista Unified School District, the Fallbrook Union School District, and the Escondido Union High School District voted 714 to 417 in favor of establishing a "junior college" in the North San Diego County area. Under state law, the San Diego County Superintendent of Schools appointed five persons as members of the first Governing Board for the new college. The Governing Board hired the first college president in 1946, Dr. Daniel C. McNaughton, who was supported by a director, a dean of students, and nine faculty members. Located on the Vista High School campus, Palomar College opened its classroom doors on September 23, 1946, with exactly 100 students enrolled in classes in science, mathematics, music, art, social sciences, commerce, English, physical education, and foreign languages.

Today, Palomar College is a public, two-year comprehensive community college serving a large student body of diverse ages, ethnicities, and lifestyles. The District's 200-acre main campus is located at 1140 West Mission Road in San Marcos. The San Marcos campus, Education

Centers in Escondido, Fallbrook, Rancho Bernardo and two additional sites serve a District covering 2,555-square-miles ranging from urban to agricultural areas of North San Diego County.

The two education sites are in Camp Pendleton, and Ramona. The Escondido Education Center is located on eight acres owned by the District, and the Fallbrook Education Center is located on an 82-acre property in Fallbrook. The Rancho Bernardo Education Center includes a large building and associated parking structure.

Palomar College constitutes a single-college district, and it is the largest single community college district in San Diego County. Palomar College borders seven other community college districts: South Orange County, Mt. San Jacinto, Desert, Imperial Valley, Grossmont-Cuyamaca, San Diego, and MiraCosta.

Palomar College has five academic divisions: (1) Arts, Media, and Business Administration; (2) Career, Technical, and Extended Education; (3) Languages and Literature; (4) Mathematics, Sciences, and Engineering; and (5) Social and Behavioral Sciences. The College offers more than 250 credit degree and certificate programs within those five divisions and noncredit courses. At Palomar, students have the opportunity to participate in a vibrant college life that includes free art and cinema series, dozens of academic and social campus organizations, and competitive intercollegiate sports teams for men and women, and dozens of music, theatre, and dance performances.

In the November 2006 General Election, voters approved an educational facilities improvement measure (Proposition M), which provides the majority of the funding for the College's $1 billion construction and remodel plan. The first major step in the implementation of this plan was realized with the completion of the Natural Sciences Building, which opened for the fall 2007 semester. Most recently, the District prioritized the last three Proposition M projects. These consist of the Athletics stadiums and fieldhouse, a 40,000 square foot building at the Fallbrook Education Center, and a redesign of the old library building on the San Marcos campus.

In November of 2023, the Palomar College Governing Board approved the 2035 Palomar College Vision Plan.   This plan establishes the vision for Palomar's educational and student support programs and facilities over the next twelve years.

Palomar College Foundation

The Palomar College Foundation continues its half-century legacy of creating a path to success for Palomar College students. Since its inception, the Foundation has raised much-needed support for crucial programs and services not covered by the state budgeting process. It is the Foundation's financial help that allows many Palomar students to achieve their academic dreams.

The Foundation inspires philanthropic support from individuals, corporations, and foundations. That support helps remove financial barriers and assure equal access to educational opportunity for students throughout North County. The Foundation provides direct student support through a variety of programs, including its Textbook Assistance Program, assistance to military veterans, scholarships, and other forms of financial aid. The Foundation also provides financial support for college and faculty initiatives that improve the student educational experience.

Working together with individuals, corporations and foundations, we are making a real difference in our region.

We are proud of our role in helping thousands of students achieve success in their lives and we are proud of our role in establishing a solid tradition of philanthropic support in the communities we serve.

For more information about the Foundation, please contact us at 760-744-1150, ext. 3103.

Palomar College Locations

Palomar College Education Centers

The College is committed to serving the entire Palomar Community College District, through the convenience of the main campus in San Marcos, and the Education Centers located within the local communities of Escondido, Fallbrook, and Rancho Bernardo and two strategically located sites. At the Education Centers, and many of the sites, students may take credit courses leading to an associate degree or certificate, or they may complete transfer requirements for further study at a four-year institution. Many students also enroll in vocational programs, noncredit courses or seminars to upgrade career skills or to continue their lifelong journey of learning.

Escondido Education Center

760-744-1150, ext. 8134
1951 East Valley Parkway, Escondido, CA 92027
www.palomar.edu/escondido

Palomar College Escondido Education Center Admissions Office is open Monday through Friday. For current hours of operation and contact information, please visit Enrollment Services webpage. Parking permits are required at the Escondido Education Center.

Course Offerings: General education classes required for an associate degree and/or transfer, and noncredit classes. Vocational programs include Emergency Medical Education, Fire Technology, and ACR Technology. ESL credit and non-credit classes are offered.

Fallbrook Education Center

760-744-1150, ext. 8464
35090 Horse Ranch Creek Road, Fallbrook, CA 92028
www.palomar.edu/fallbrook

Palomar College Fallbrook Education Center Admissions Office is open Monday through Friday. For current hours of operation and contact information, please visit Enrollment Services webpage. Parking permits are required at the Fallbrook Education Center.

Course Offerings: General education classes required for an associate degree and/or transfer. Academic programs include: Associate Degree for Transfer in Psychology; Associate Degree for Transfer in Sociology; Associate Degree and Certificate of Achievement in Fire Technology - General; Associate Degree in Administration of Justice - General, Certificate of Proficiency in EMT Basic, Certificate of Achievement in

Child Development Associate Teacher; core preparation in Biology, Nursing, Chemistry. ESL credit and noncredit classes are also offered.

Support Services: Admissions and enrollment services, financial aid, counseling, disability services, cashier services, Student Life & Leadership, food & nutrition center, bookstore delivery, Palomar College Police, library, and computer lab. The Center also offers tutoring in the Teaching and Learning Center.

Rancho Bernardo Education Center

760-744-1150, ext. 8664
11111 Rancho Bernardo Road, San Diego, CA 92127
www.palomar.edu/ranchobernardo

Palomar College Rancho Bernardo Education Center Admissions Office is open Monday through Friday. For current hours of operation and

contact information, please visit Enrollment Services webpage. Parking permits are required at the Rancho Bernardo Education Center.

Course Offerings: General education classes required for an associate degree and/or transfer. Academic programs include: Associate Degrees for Transfer in Mathematics; Associate Degrees in Architecture and Interior Design; Associate Degrees and Certificates of Achievement in Fashion Merchandising & Design; and Certificates of Achievement in Architectural Drafting and Interior Design.

Support Services: Admissions and enrollment services, financial aid, counseling, cashier services, Student Life & Leadership, health services, disability services, food and beverage vending, bookstore, Palomar College Police, and a library with internet access. The Center also offers tutoring in the Teaching and Learning Center.

Education Site Locations

Camp Pendleton Education Site

760-744-1150, ext. 7818
Location: Building 1331
Camp Pendleton, CA 92055
www.palomar/camppendleton

The Palomar College Education Site at Camp Pendleton is open Monday through Thursday, 8:00 a.m. to 5:00 p.m. and Friday, 8:00 a.m. to 2:00 p.m. Classes are offered in various areas of the base. A base pass is required for non-military students. Please see website for additional information.

Course Offerings: General education classes required for an associate degree and/or transfer, and the noncredit Academic Skills program. Academic programs include Associates Degree in General Studies; Associates Degree for Transfer in Business Administration, and a Certificate in EMT Basic.

Support Services: Admissions and Enrollment Services, Financial Aid, Veterans Services, Counseling, Math Tutoring, Library Services, bookstore delivery, and a computer lab.

Ramona Community Campus

1010 Ramona Street, Ramona, CA 92065

Course Offerings: General education classes required for an associate degree and/or transfer.

Santar Public Safety Training Center

760-891-7657
182 Santar Place, San Marcos, CA 92069

Vision, Mission, and Values

Vision

Transforming lives for a better future.

Mission

Palomar College respects each of our students' experiences and supports them to achieve academic success. As a community college, we encourage our students to embrace the best version of themselves and prepare them to engage with our local and global communities.

Values

In creating the learning and cultural experience that fulfill our mission, we are committed to serving our community, including historically and currently marginalized and racially minoritized populations. In doing so, we are guided by the core values of:

Access
We make education possible for everyone.

Diversity, Equity, and Inclusion
We recognize and respect diversity, seek to foster a culture of inclusion and belonging, and strive to address inequities.

Academic Excellence
We provide quality programs and robust course offerings to support students who are pursuing transfer-readiness, general education, career and technical training, aesthetic and cultural enrichment, and lifelong education.

Student Focused
We offer a caring and supportive environment that addresses the holistic and distinct needs of our students.

Community
We are an integral part of our region and strive to foster meaningful relationships within our college and local communities.

2 ADMISSIONS
and
REGISTRATION

Admissions Policies

Admissions Policy

Any person who meets one of the following requirements is eligible to attend Palomar College:

- Has graduated from an accredited high school
- Is a non-high school graduate 18 years of age or older
- Has passed the California High School Proficiency Examination (CHSPE), or Certificate of Equivalency (G.E.D.)
- Is a minor who may profit from instruction and has permission of the local high school district
- Has petitioned for special admission and obtained approval from parent/guardian, representative of the school district of residence and Palomar College Director of Enrollment Services (admitted on a permission and space available basis).

Nondiscrimination Policy

As stated in BP 3410, the Palomar Community College District is committed to equal opportunity in educational programs, employment, and all access to institutional programs and activities. In addition, all students have the right to participate fully in the educational process, free from discrimination and harassment.

The District and each individual who represents the District shall provide equal access to its services, classes, and programs without regard to national origin, religion, age, sex, gender, gender identity, gender expression, race, color, medical condition, ancestry, sexual orientation, marital status, physical or mental disability, or because he/she is perceived to have one or more of the foregoing characteristics, or based on association with a person or group with one or more of these actual or perceived characteristics.

It is the policy of the College that, unless exempted by statute, every course offered and maintained by the District shall be fully open to enrollment and participation by any person who has been admitted to the College and who meets the stated prerequisites for the course.

The complete Board Policy may be found at http://www.palomar.edu/gb/ under Governing Board, Policies and Procedures.

Application for Admission

Anyone who wishes to attend Palomar College must submit a completed application for admission. Students may apply online at http://www.palomar.edu.

Admission to Special Programs

Admission to the Basic Police Academy, Dental Assisting, Nursing Education, Fire Academy and Paramedic programs is by special application. Use the links provided to find out more about the individual programs and the special application process. Space may be limited.

Special Admission for Accelerated Students

To be considered for admission, minors must have completed the eighth grade or reached the age of 15, and have permission of the local school district. Home-schooled minors may enroll with permission of the local school district. Minors, under 16 years of age, with permission from a public or private school, and the Palomar College instructor, may enroll only in courses specified by the local school district or private school. Credit earned is college credit and may also be used as high school credit with consent of the high school. See the Admissions Office for details. Minor children enrolled in classes and programs must adhere to the Student Code of Conduct.

Minor Children: It is the expectation of Palomar College that minor children of currently enrolled students will be under the constant supervision of parents or guardians (not with-standing those minor children enrolled in Palomar College classes and programs) and that said parents or guardians are responsible for assuring appropriate behavior of minor children. Parents or guardians will be held responsible when the behavior of minor children constitutes a violation of the Palomar College Code of Conduct and these parents or guardians may be directed to remove the minor children from District facilities (classrooms, libraries, food services, operations, athletic events, public areas, etc.) should violations occur.

Education Planning

What is Education Planning?

Education planning is the process of creating an education plan with a counselor. An education plan (commonly shortened to ed plan) is a personalized semester by semester course of study outlining a strategy for identifying and reaching your educational goals. Included are recommended career planning activities and support tools. An education plan should be developed during your first semester and maintained throughout your enrollment at Palomar College.

Enrollment Conditions

Many courses and programs of study have enrollment conditions such as prerequisites, corequisites, or advisories on recommended preparation. These faculty-approved conditions are considered necessary and appropriate to ensure that you are adequately prepared to succeed in the course or educational program.

Enrollment restrictions are defined below. All students must meet any and all enrollment conditions.

What is a Prerequisite?

A prerequisite is a condition of enrollment that you are required to successfully ('C' or better) meet in order to demonstrate current readiness in a course or educational program. You may be required to show proof of meeting the prerequisite. Failure to meet the stated prerequisite may result in you being administratively dropped from the course.

What is a Corequisite?

A corequisite is a condition of enrollment consisting of a course that you are required to simultaneously take in order to enroll in another course. Failure to enroll in the stated corequisite will result in you being administratively dropped from the course.

What is an Advisory on Recommended Preparation?

Recommended preparation is a condition of enrollment that you are advised, but not required, to meet before or in conjunction with enrollment in a course or educational program. If you believe that you have satisfied the advisory by means other than the stated advisory, you are urged to consult with the appropriate department to determine your readiness to enroll in the course or educational program.

Are there other limitations on enrollment?

Yes. Enrollment in certain courses or programs of study may require try-outs, auditions, or may be limited by health and safety considerations, facility limitations, faculty workload, the availability of qualified instructors, funding limitations, or legal requirements imposed by statutes, regulations or contracts. All such limitations are in conformity with the provisions of Title 5, Section 58106, California Community Colleges Board of Governors.

What if I don't have the necessary prerequisites or corequisites?

You may not be permitted to enroll in a class for which you cannot demonstrate you have met the prerequisite, or are enrolled in the corequisite. If it is determined after a course begins that you have not met the prerequisite, you may be administratively dropped from the course.

What if I am currently enrolled in the prerequisite when it is time to register for my class? Will I be prevented from enrolling in the next level course?

No. If you are currently enrolled in the prerequisite course at Palomar College, it is assumed that you will pass the course with a 'C' or better, and you will be permitted to enroll in the next level course. If you do not pass (D, F, FW, NP/NC, I, or W) the course, you will be administratively dropped from the class before the opening day.

Can I challenge a prerequisite or corequisite?

Yes, under certain conditions. Refer to the information on challenges below.

Challenging Prerequisites

You have the right to challenge any prerequisite. A prerequisite or corequisite challenge requires written documentation, explanation of alternative course work, background, abilities, or other evidence which has adequately prepared you for the target course. A Requisite Challenge Petition can be obtained from the Enrollment Services Office or the Counseling Department.

Reasons for seeking a Requisite Challenge Petition may include one or more of the following:

- A prerequisite or corequisite has not been made reasonably available.
- A prerequisite or corequisite has not been established in accordance with the District's process for establishing prerequisites and corequisites.
- You can provide evidence of having the knowledge or ability needed to succeed in the course despite not meeting the prerequisite or corequisite.
- You may challenge a prerequisite or corequisite established to protect the health and safety of himself, herself, and/or others.
- A prerequisite, corequisite, or limitation on enrollment is discriminatory or applied in a discriminatory manner.
- A prerequisite or corequisite is in violation of Title 5.

Students may enroll in the target course once a requisite clearance has been approved by the department. If no space is available in the course when the requisite clearance is approved, the student can attempt to crash the course and/or add with instructor permission. Challenge petitions are vaild for the semester the petition is approved. Challenge petitions cannot be used for subsequent terms. For questions, please contact Enrollment Services, (760) 744-1150, extension 2164.

Enrollment Fees (2025-2026)

Palomar College is a public California Community College. All students must pay enrollment fees and mandatory campus fees. California non-residents and international students must also pay non-resident tuition.

Fee Payment Procedure

Students are responsible for paying all enrollment and mandatory fees. All fees are due at the time of registration. Students are responsible to drop or withdraw from all classes by the published refund deadline to avoid being responsible for associated fees. Failing to attend class will not warrant a refund or waiver of fees. The college will waive or refund enrollment fees only when a drop is processed within the first 13 days of a class. Students are responsible for payment of all charges regardless of expectations from financial aid or other sources. Failure to

pay any outstanding balance due to Palomar College will result in an enrollment hold and submittal to the Chancellor's Office Tax Offset Program or other collections.

Fees

Fees are subject to change; please check the current class schedule for a complete, up-to-date list. All required fees must be paid at the time of registration. For information on exemptions from fees, please refer to the current class schedule or check with the Financial Aid Office. Active duty military members should contact their Base Education Office for information on tuition assistance.

Auditing Fee

$15 per unit - Refer to Section 5, Auditing a Class, for specific information on selecting audit status. Not considered for CCPG or Financial Aid eligibility.

Classroom Expenses

Students will incur a reasonable amount of general classroom expenses (for example: supplies, materials for homework projects, printing or copying costs). Some classes may require additional expenditures, such as for field trips, admission fees to public attractions or performances. When required, such expenses are generally noted with the respective class in the Class Schedule or class syllabi.

Enrollment Fee

$46 per unit - This mandatory fee is subject to change.

Health Fee

A health fee is charged to all students for operation of the Student Health Centers as authorized in Education Code Section 76355. Student Health Fee is $27 for Fall and Spring Semesters and $22 for Summer.

The following students are exempt by law:

- Students who are taking only apprenticeship classes.
- Students who depend exclusively upon prayer for healing in accordance with the teachings of a bona fide religious sect, denomination, or organization.

Other exempt students include:

- Students who are active duty military and taking classes exclusively at the Camp Pendleton Center or who are deployed overseas.
- Students who exclusively attend Not-for-Credit Instruction
- Students who are exclusively taking contract education classes.
- Students who are exclusively taking classes in the Instituto Nacional para la Educación de los Adultos (INEA) program.
- Students who are exclusively enrolled in non-credit classes at educational sites where Palomar College does not offer on-site Student Health Services.

Materials Fee

Students may need to provide materials required for a credit or noncredit class. Such materials must be of a continuing value to the student outside of the classroom setting. The materials may be available through the District or may be purchased elsewhere.

Non-Resident Tuition

Non-Resident Tuition- $369 per unit. Non-residents and international students must also pay all other applicable fees. Please refer to the current class schedule.

Nonsufficient Funds Fee

$20 for each check returned to the College.

Parking Fee

Parking Fee -$46 for the Fall and Spring semester, $34 for the Summer semester, and $26 for all semesters for students receiving CCPG. Please refer to the current class schedule.

Student Activity Card

The Student Activity Card provides free and discounted benefits to currently enrolled students. The card is $15 each semester and students can purchase it online through their MyPalomar account or at the Cashier's office. Once paid, students will have their photo taken and card printed through Student Life and Leadership.

Student Center Fee

The student center fee is $1 per unit and it is not to exceed $10 per academic year. Funds generated through this fee will be used to finance and support operating costs and renovations to the Student Union. The fee is non-refundable and students who receive benefits through CalWORKS (known as TANF), SSI, SSP and the General Assistance Program are exempt from this fee.

Student Representation Fee

Per Assembly Bill No. 150 4, a $2 fee per semester is collected to provide funds to support governmental affairs representatives of local or statewide student body organizations who may be stating their positions and viewpoints before city, county, and district governments and before offices and agencies of state government.

Title 38 Beneficiaries (VA Benefits) Fees and Expenses Hold

Hold Preventing Drop for Non-Payment

In accordance with Title 38 USC 3679(e), Palomar College will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any covered individual because of the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement of a payment to be provided by the Secretary under chapter 31, 33, or 35 of this title.

Covered individual is any individual who is entitled to educational assistance under CH 31, CH 33, or CH 35 VA Educational benefits. A covered individual must complete the following to not have any of the above penalties imposed:

1. Submit a certificate of eligibility for entitlement to educational assistance not later than the first day of a course of education for which the individual has indicated the individual wishes to use the individual's entitlement to educational assistance.
2. Submit a completed VA Benefit Coding Request.
3. Provide all additional information needed for the Veterans Resource Center to certify covered individual's enrollment certification to VA Education Regional Office.

Transcript Fees

- Receive 2 free in your lifetime.
- 3rd request and up: $5.00 each
- Rush service: Additional $5.00 each
- Online request: $13.00 each

Verification Fees

- Fee requests include verification of semester units, overall units, and military dependent ID requests
- All requests: $5.00 each
- Rush service: Additional $5.00 each
- Non-fee requests include federal loan deferments and non-enrollment.

Refer to Section 5, Official Transcript and Verification of Enrollment, for specific information on requesting transcripts and verifications.

Refund Policy for Student Fees

Students must drop or withdraw by the published refund deadline in order to receive a refund or waiver of fees. The following fees are subject to refund: enrollment, health, and non-resident tuition. Material fees will be refunded as long as the student has not used any of the class materials. Please see the current class schedule for the appropriate deadline date.

Parking Refunds

Parking permit refunds can be requested by emailing clientrelations@phxgis.com. Parking permit refund requests are honored within the Add/Drop period only.

Appeal Procedure

An appeal of the rules pertaining to a refund of fees must be made in writing using the Petition for Refund form and submitted to the Dean, Enrollment Services. The appeal must include the reason, and any available backup documentation, for requesting the exception.

Student Representation Fee Waiver

A student may opt out to the pay the $2 Student Representation fee at the time of completing their registration. Students who wish to opt out will need to decline the fee request through their MyPalomar account.

Enrollment Options

Community Education Classes

Noncredit courses which support life-long learning. May be either full term or short term.

Dual and Concurrent Enrollment

The Dual Enrollment Program refers to college classes offered at a high school intended for high school students to earn both high school and college credit completely free of charge! Concurrent Enrollment is when a high school student takes a community college course at his or her own discretion at a Palomar campus or online. Students are required to pay for textbooks and some fees. Tuition of $46 is not charged to the high school student.

Fast Track

Fast-track courses, which are eight weeks in duration, are offered throughout the calendar year. The work that students complete in a semester-length class is compressed into eight weeks. These classes are intensive, but they allow students to move quickly to advanced study or to a career.

Full Term Classes

A regular semester course of 16 weeks.

Intersession Classes

Courses offered between regular terms.

Late Start Classes

Accelerated courses which are less than 16 weeks, but which must be completed within a semester/session.

Learning Communities

An engaging learning experience in which students enroll in two or more linked courses. By studying with the same group of students across multiple courses, a Learning Community student connects more deeply to the course material, makes lasting friendships with other students, and receives increased academic support from instructors and tutors. Students must enroll in all courses in a particular Learning Community in order to participate and must remain enrolled in both throughout the semester.

Online Classes

Online classes offer convenience for students with busy schedules. Students must have reliable access to e-mail and the Internet. You can "attend class" at any hour of the day or night, and communicate with your instructor via e-mail or electronic discussion boards as your schedule allows. Attendance at some on campus activities may be required for some on-line classes. Student financial aid awards may be impacted in certain cases. Please check with the Financial Aid Office for more information. Online classes are academically equivalent to traditional face-to-face classes. For more information, visit our web site at https://www.palomar.edu/atrc/canvas/.

Palomar Promise Program

The Palomar Promise offers up to two years of free tuition, textbook assistance, and access to specialized academic and career planning with related support services to first-time college students who meet the eligibility requirements. Program benefits subject to available funding. For more information, visit: www.palomar.edu/palomarpromise.

Saturday Classes

Academic or vocational courses taught on Saturdays, generally in the mornings. May be either full term or short term.

Self-Paced Classes (Open Entry)

Courses which allow flexibility in scheduling, where a student may enroll at any time up to a designated date in the semester/session. Hours of attendance are arranged with the instructor. Depending upon unit value, a specified number of hours must be completed to receive credit.

Short Term Classes

Any course which is less than 16 weeks.

Summer Bridge

Summer Bridge is a non-credit program whose goal is to assist students in improving their skills in English, ESL and/or Math. ESL Summer Bridge offers 4 and/or 6 week sessions to help ESL students improve their academic English reading and writing skills. Bridge to College Math is a 3 week session designed to give students support by building their mathematical confidence and proficiency while improving their math placement. For information on ESL Summer Bridge, visit: www.palomar.edu/esl. For information on Bridge to College Math, visit: www.palomar.edu/math

Summer Session

Mini sessions offered during the summer, generally either 6 weeks or 8 weeks in length.

Video Classes

A college credit course which uses cable television, streaming video, DVDs, and 5-7 campus meetings to deliver instruction. Video classes include video programs, textbooks, assignments, examinations, and class discussion. This type of class allows students to study and complete course work when and where it is convenient for them to do so. Student/Instructor interaction occurs online and at scheduled campus meetings. The course syllabus, other instructional materials, and the streaming video are accessed through the Blackboard online system. Video is also available on cable television and via DVD checkout at the Palomar College San Marcos campus library and some Palomar College sites. Video courses are academically equivalent to traditional campus courses, and satisfy pre-collegiate, elective, or general education requirements toward certificate or A.A. degree programs. For more information, visit www.palomar-tv.com.

Weekend College

Attend classes offered on Friday evening, Saturday and Sunday.

Workforce and Community Development Seminars

Not-for-credit workshops, classes, seminars, activities, and events to help you continue learning throughout your life. Usually taught as evening or weekend courses.

Enrollment Procedures

All new and returning students should submit their application for admission as soon as possible after the date applications are first accepted. Early applications secure earlier enrollment appointments. Check the college calendar in the front pages of this catalog for the dates applications are accepted or check our web page at www.palomar.edu/admissions for the most current information.

Declaring a Second Major

Students who wish to pursue a second major should seek the assistance of an academic counselor. Having a second major declared on an education plan will not be considered payable for financial aid and may impact your VA benefits. For more information on those benefits, please contact the Financial Aid or Veterans department.

The Class Schedule

Students are informed of the enrollment procedure to be followed in the official Class Schedule for each semester.

Online Enrollment

All students may use MyPalomar to enroll. Continuing students have automatic eligibility to enroll. New students may apply online at www.palomar.edu or by submitting an Application for Admissions to the main campus or at a College Center. Returning students may enroll after updating their application data online through their eServices account. All students are issued a unique Palomar student ID number, which will be used for enrolling and all other transactions with Palomar. See the Class Schedule for more information.

Enrollment Appointments (Priority Registration)

Enrollment appointments are assigned times in which a student can first register for classes for an upcoming term. Palomar College's system for distributing enrollment appointments is published in the Class Schedule.

Our system is designed to:

- reflect our core mission of transfer, career technical education, and basic skills development;
- encourage students to identify their educational objective and follow a prescribed path most likely to lead to success;
- ensure access and the opportunity for success for new students; and
- incentivize students to make progress toward their educational goals.

Students are assigned to one of eight groups:

- **Group 1.** Disability Resource Center (DRC), EOP&S, foster youth, homeless youth, formerly homeless yhouth, CalWORKS, Tribal TANF recipient, eligible veterans, active duty military personnel, Rising Scholars and student parents with minor dependents under 18 years old.
- **Group 2.** Students in their last term of attendance prior to graduation or transfer.
- **Group 3.** New, returning, transfer, and continuing students who complete orientation, assessment and development of an educational plan.
- **Group 4.** (SSSP Category 3) Students participating in approved special programs.
- **Group 5.** (SSSP Category 3) Continuing students
- **Group 6.** New, returning, or transfer students who are not in Group 3.
- **Group 7.** Returning or continuing students with 90 or more earned units of credit completed at Palomar College (as earned units are defined earlier in this Administrative Procedure) and/or students who have been on Academic or Progress Probation for two or more consecutive terms.
- **Group 8.** Non-high school graduates age 16 to 18. Students less than 16 years of age require permission of the instructor to enroll in classes.

A student who has been on Academic or Progress probation for two consecutive terms and/or who has earned 90 or more degree-applicable earned units completed at Palomar College will be placed at the end of the priority registration cycle.

The units that are counted towards the 90 earned units limit are defined in Title 5, Section 55023, and include courses with grades of A, B, C, D, and P. Grades of W, I, F, FW, MW, and NP are excluded. Also excluded are Basic Skills and Non Credit ESL.

Palomar College may allow students who have demonstrated significant academic improvement to appeal the loss of priority enrollment status due to having been on Academic or Progress Probation for two or more consecutive terms. Significant academic improvement is defined as achieving no less than a 2.0 GPA and successful completion of more than 50% of course work for the term or terms. Students in "high unit" majors may petition for an exception to the limit of 90 earned units. High unit majors are defined as programs requiring more than 40 units. Petitions are submitted to the Admissions Office and will be reviewed by the Program Eligibility Appeals Committee.

Procedure for Adding and Dropping Classes

Adds and drops are processed online through MyPalomar until the class deadline date (see Class Schedule). You may be required to obtain a instructor permission to add a class.

All additions to a student's program must be processed within the first two weeks of classes. Exceptions to this deadline include late-start and open-entry classes.

Official Withdrawal

Students must drop classes by using MyPalomar. Refer to "Dates and Penalties" below for any penalties which may be imposed.

Unofficial Withdrawal

Students who simply stop attending class and do not drop through MyPalomar have unofficially withdrawn. These students may receive an "FW" grade in every class they stop attending.

Administrative Withdrawal

Administrative withdrawals may occur for academic or disciplinary reasons, or for non-payment of fees. If the administrative withdrawal occurs after the refund period, the student will not be entitled to a refund or waiver of registration fees.

Dates and Penalties

If a student processes a drop during the first two weeks of a full semester course, or first 20% of a short-term course, no grade will be assigned and no notation will appear on the student's permanent record.

Between the second week and the eighth week of a full semester course, or between 20% and 50% of a short-term course, a student may process a drop at his or her discretion and receive a withdrawal (W grade).

After the eighth week of a full semester course, or 50% of a short-term course, only evaluative (A, B, C, D, F, FW, NP) or Incomplete (I) grades shall be assigned.

All students are expected to attend classes. Failure to attend classes can result in an "FW" grade, unless the student executes a drop within the time periods indicated above. Refer to the college calendar in the front pages of this catalog for specific dates or check our web page at www.palomar.edu/admissions for the most current information.

Petition Appeal Procedure

Students who have verifiable extenuating circumstances may petition to withdraw or excused withdrawal from a class after the eighth week of a full semester course, or 50% of a short-term course. See "Conditions for Petition to Withdraw" listed under the Grading System in Section 5 of the catalog.

Class Cancellations/Changes

Palomar College reserves the right to cancel any class for which the enrollment is not sufficient to warrant continuation, and to change the class hours and/or days as necessity demands. Students enrolled in classes that are cancelled by the College are entitled to a refund of fees, with no processing charge.

Financial Aid Applications

Financial aid applications serve as the primary means for students to apply for financial assistance to help cover the costs of attending college. Although applications are accepted throughout the academic year, students are encouraged to apply for financial aid online as early as possible to maximize their eligibility potential for both federal, state, and institutional financial aid. Cal Grant priority application deadline is typically March 2nd of each year. However, due to the delay of the 2024-2025 Better FAFSA/CADAA application launch, the priority deadline was extended to April 2, 2024.

To apply for all federal and state sources of financial aid, U.S. citizens and eligible noncitizens must complete the Free Application for Federal Student Aid (FAFSA) at https://studentaid.gov/. Palomar College School Code is 001260. A new FAFSA must be completed each school year.

The California Dream Act allows undocumented and nonresident documented students (DACA, U-Visa holder, or Temporary Protected Status) who meet AB 540 criteria to apply for and receive private scholarships, state administered financial aid, and community college fee waivers. Students can apply for state financial assistance programs by filing a California Dream Act application at https://dream.csac.ca.gov. A new CADAA must be completed each school year.

More information is available on the Palomar College financial aid webpage at https://www.palomar.edu/fa/

International Students (F-1 and M-1 Visas)

Palomar College is authorized under federal law to enroll nonimmigrant alien students. The following is required for admission to the regular college program

- International student application with passport size photo attached
- Completion of CCC apply
- Confidential financial statement certified by bank official or official bank statement
- Affidavit of financial support
- Test of English As a Foreign Language (TOEFL) score of 470 (PBT) or 47 (IBT) or IELTS score of 5.0 or ITEP score of 3.5 or Duoling English Test score of 85 or Cambridge Assessment of B2
- Proof of high school graduation
- Official transcripts of high school and all schools after highschool
- Official transcript of any intensive English schools in the United States
- Copy of valid passport

Application Deadlines

Fall

- April 15 Overseas and transfer applicants (to qualify for priority registration)
- June 30 Overseas applicants (depending on availability of courses)
- July 31 Transfer applicants (depending on availability of courses)

Spring

- October 15 Overseas and transfer applicants (to qualify for priority registration)
- December 1 Transfer students (depending on availability of courses)
  NOTE: Applications submitted by students who are already in the U.S. with the F-1 (student) visa after the application deadline may be accepted on a case by case basis (depending on the availability of courses).

International students are required to pay non-residential tuition. For informational brochure and/or application forms, contact:

> Palomar College
> Office of International Education
> 1140 West Mission Road
> San Marcos, CA. 92069-1487 USA
> (760) 744-1150 Ext. 2167
> (760) 761-3592 Fax
> www.palomar.edu/internationalstudents
> intladm@palomar.edu

Placement & Orientation

Equitable Placement and Completion (AB 705)

Palomar College no longer uses assessment tests to place students in English, ESL, and math. Students are given a recommended placement through using multiple measure, which may include high school GPA and past coursework. Placement is determined using the online application, and students can view their recommended placement in their Student Center account in MyPalomar.

Students are encouraged to meet with a counselor to discuss any experiential learning, such as military training, special certificates and licenses, work history, and/or volunteer civic engagement. This information can be used the improve the accuracy of their placement based on the student's major or educational goals.

All students who have a U.S. high school diploma and/or coursework, including English language learners and students who may have taken English language learning courses in high school, will receive a transfer-level composition placement though the Palomar online application and may take transfer-level composition (English 100, English 100 & English 49, or ESL 110). Palomar offers transferable credit ESL courses including transfer-level composition, and students who choose to take ESL courses may select their course/level through a self-placement process.

Students are encouraged to review more information at the Palomar College ME First (Math and English/ESL First) website: https://www.palomar.edu/mefirst.

Use our online system or call the Counseling Front Desk at (760) 891-7511 to schedule an appointment with a counselor.

Placement

The English, English as a Second Language (ESL), Reading, and Math Placement results are based on the information students provide while completing the online application for admission.

Results can be viewed on the e-services student portal..

In addition to answering the Multiple Measures questions on the application, the following options are also available to students:

- Students may submit documentation of previous college course work and/or assessment scores from another college. Scores expire after two years; course work does not expire.
- Students may submit CSU EAP scores to receive Palomar placement if they placed into college-level English and/or math.
- Non-native English speakers may participate in a specialized placement process. Contact the ESL Department.
- Special testing conditions are offered for disabled students through the Disability Resource Center (DRC).
- Students may place themselves in entry-level classes and progress through the curriculum

Orientation

We encourage you to complete new student orientation. To access the online orientation, login to the MyPalomar student portal and look for your to-do list items. For more information, please visit www.palomar.edu/orientation.

Residency

Information in the following paragraphs summarizes the rules and regulations related to student residency for educational purposes. Details are found in Education Code Section 68090, Title 3, Part 41, Chapter 1, and may be found in the College Library.

Residency is determined when a student applies for admission to the College. The Admissions Office will help with questions and interpretation of the regulations.

Definition of Residence

In law, every person has a residence. There can be one and only one residence. A residence cannot be lost until another is gained. It is the place where one lives when not on vacation or leave. It can be changed only by a combination of act and intent. Every person who is married or is 18 or older and under no legal restriction may establish a residence. Certain minors may also establish residence.

Residency Status

A California "resident," for tuition purposes, is a person who has resided in the state for more than one year prior to the residence determination date and shows "intent" to the state of California.

A "nonresident" is a person who has not resided in California for the full one-year period before the residence determination date. A nonresident must pay nonresident tuition in addition to other fees for credit classes. Tuition must be paid in full at registration.

Residence Determination Date

The residence determination date is that day immediately preceding the first day of instruction.

Factors Considered to Determine Residency

The following factors are called "indices of intent." They, along with a person's presence in California, are considered in determining California residency. No one factor decides residency. All evidence is weighed. If any one of the "indices of intent" shows intent only for another state during the one-year period, it may show lack of intent for California:

- Own residential property in California for personal use
- Are licensed to practice a profession in California
- Vote in California
- Pay California State Income Taxes
- Possess a California driver's license and a vehicle registered in California
- Have an active checking and/or savings account in a California bank
- Show a California address on military records
- Possess a marriage license or a divorce decree issued in California
- Have been paying nonresident tuition in another state

Exception to Residency Requirements

There are exceptions to the residency rules. They may include the following:

- Military personnel stationed in California
- Dependents of active duty military personnel stationed in California
- Students eligible for CH 30, CH 31, CH 33, or CH 35 VA Education Benefits
- Certain minors who stayed in California when parents moved
- Self-supporting minors
- Full-time employees of a state agency or a child or spouse of the full-time employee
- Those who attended a California high school for 3 or more years AND graduated from a California high school or attained an equivalent (GED or CHSPE). This exception does not grant California residency.

Right to Appeal

Students who have been classified as nonresidents have the right to a review of their classification (T5, 54010). Any student, following a final decision of residence classification by the Enrollment Services Office, may make written appeal to the Enrollment Services Office within 30 calendar days of notification of the final decision by the District regarding classification.

The appeal must be submitted to the Enrollment Services Office. Copies of the original application for admission, the residency questionnaire, and evidence or documentation provided by the student, with a cover statement indicating upon what basis the residence decision was made, must be forwarded with the appeal.

The Enrollment Services Office shall review all the records and have the right to request additional information from either the student or the Admissions Office. The Enrollment Services Office will render a final decision.

Within 30 calendar days of receipt, the Enrollment Services Office shall send a written determination to the student. The determination shall state specific facts on which the appeal decision was made.

Transcripts/Advanced Standing and Classification

Transcripts/Advanced Standing

Although not required for admission, it is highly recommended that students provide the college with official transcripts from all other colleges attended upon enrollment.

Official transcripts are required for:

- Transfer credit course work to be applied to current Palomar educational goals
- Associate degree evaluation
- Certification of lower-division course work for CSU or UC transfer
- Veterans educational benefits certification
- Nursing program admission

Financial Aid students should refer to the Satisfactory Academic Progress (SAP) policy on the Financial Aid website for information on financial aid transfer credit requirements.

Transcripts received become the property of Palomar College and cannot be returned to the student or forwarded to other schools. If a student has submitted transcripts from another institution, and has not attended within two years or has not applied for graduation, transcripts may be purged from the student's records and must be re-submitted by the student.

Courses, units, and grades from other regionally accredited colleges and universities that are accepted will be applied toward the completion of academic degrees or certificates of achievement at Palomar College. Units accepted may also be applied toward transfer patterns to four-year institutions.

Transcripts from foreign schools or universities must be evaluated by a NACES approved credentials evaluation service. Please refer to the Evaluations Office website for a list of frequently used foreign transcript evaluation agencies.

Refer to the Academic Regulations and Standards section of the catalog regarding acceptance of non-traditional credit.

Student Classification

Freshman
A credit student who has completed less than 30 semester units.

Sophomore
A credit student who has completed 30 or more semester units, but does not have an Associate degree.

Unclassified
A registered credit student who, by definition, is neither a freshman nor a sophomore.

Admissions and Records

Admissions and Records

Admissions & Enrollment, SSC-49, Ext. 2164
Evaluations & Graduation, SSC-40, Ext. 2165
Student Records & Transcripts, SSC-55, Ext. 2169

All students must submit an application for admission in order to attend Palomar College. The admissions application permits a student to enroll, and establishes a history for each student. The Admissions Office processes adds, drops, reinstatements, refund petitions, and applications for audit and Pass/No Pass (Credit/No Credit).

The Records and Evaluations Office are responsible for maintaining academic records, enforcing academic regulations, and awarding degrees and certificates. The Records Office processes grades; maintains student academic history; processes requests for transcript and verifications of enrollment; receives transcripts, test results, etc. from other institutions; and processes Petitions for Academic Renewal and Credit by Examination. The Evaluations Office processes petitions for graduation and transfer; evaluates transcripts and records; posts degrees, certificates, and transfer certifications; processes Academic Standing, including Dean's List and Probation/Dismissal; and processes Petitions for Course Repetition.

Articulation Services

MD-340, Ext. 2737
The Palomar College Articulation Officer secures course articulation agreements with colleges and universities throughout California and out-of-state. Students use these agreements to plan their educational programs in preparation for transfer to a four year college or university. Agreements and course requirements are available in the Counseling offices, online at http://www.assist.org, and on the Articulation website at http://www.palomar.edu/articulation/.

International Education

SU-103, Ext. 2167
The Office of International Education specializes in admitting and assisting international students on F-1 and M-1 visas. Palomar College has approximately 250 international students enrolled each year, representing over 30 countries. The Office of International Education administers specialized orientation and assessment sessions for their students, as well as offering assistance with class selection and registration. The office also assists students with immigration advising, housing needs when possible, and a variety of academic and personal issues that may arise during their stay at Palomar.

The office maintains information on TOEFL exams, medical insurance requirements, and foreign credentials evaluation services. For detailed information on international student admission, please refer to Section 2 Admissions and Registration, call the Office of International Education at 760-744-1150, ext. 2167, or visit our web site at http://www.palomar.edu/internationalstudents.

Transfer Center

SSC-24A, Ext. 2552
The Transfer Center provides up-to-date information regarding successful transfer to all four-year universities.

Cross-enrollment processing, assistance with university applications, Transfer Admissions Guarantees (TAGs) to 6 UC universities and the opportunity to schedule appointments with visiting four-year representatives are some of the services available to assist students.

Students interested in transferring should plan in advance to understand the critical transfer and application procedures and filing periods. For information on transferring requirements, deadlines and forms, visit the Transfer Center website at https://www.palomar.edu/transfercenter/.

Athletics

O-10, Ext. 2460

The intercollegiate athletics program at Palomar College is one of the most comprehensive and diverse among the California Community Colleges, featuring 16 varsity sport programs and over 350 student participants annually. Palomar fields intercollegiate teams in the following men's sports: baseball, basketball, football, soccer, swimming and diving, volleyball, water polo, and wrestling. The list of women's sports includes: basketball, beach volleyball, soccer, softball, swimming and diving, track and field, volleyball, and water polo. Additionally, the Athletic Department oversees a co-educational cheerleading program and the emerging sport of women's wrestling. Students must meet the eligibility standards of the California Community College Athletic Association in order to represent the institution athletically. Please contact the Athletics Department for more information.

Career Services

Career Center

San Marcos Campus, MC-1, Ext. 2194

The Palomar College Career Center offers comprehensive career development services and employer engagement opportunities to support students in achieving their career goals. The center provides information regarding internships, service learning opportunities, and one-on-one career counseling sessions to assist with career planning. The Career Center also hosts workshops and events on interviewing techniques, resume development, networking, and job fairs. Employment Assistance services connect students with employment opportunities, helping students transition from college to career.

For more information call 760-744-1150, ext. 2194 or visit our center in MC-1 or website at www.palomar.edu/careercenter/.

Counseling Services

Counseling Services

SSC-24, 760-891-7511

Academic, career, and personal counseling related to academic success are provided in the Counseling Center, located in the Student Services Center. Counseling services are provided according to the needs of each student as described below.

Academic counseling is available to students seeking assistance with scheduling or clarification of requirements for certificates, graduation, or transfer. Students are encouraged to meet with a counselor each semester to assure careful course selection and to remain current on evolving degree and transfer requirements.

Career counseling is available in the Career Center located in MC-1.

Assistance in preparing to transfer is available in the Transfer Center, located in the Student Services Center at the San Marcos Campus, please visit the Transfer Center website at www.palomar.edu/transfercenter.

Personal counseling is available to students who may seek the assistance of a counselor in finding solutions to problems that may be affecting their academic progress. A counselor may also provide further assistance in helping students understand their attitudes, feelings, and academic potential, thereby enabling them to make realistic decisions. Appropriate referrals may also be given.

For more information and appointments please visit our website at www.palomar.edu/counseling.

Disability Resource Center (DRC)

San Marcos Campus DR Bldg., Ext. 2375
DRC provides academic, vocational and personal counseling, services and specialized instruction for students with physical, learning, vision, hearing, communication, and psychological disabilities.

Services for verified students may include academic, personal and disability management counseling, test accommodations, note taking assistance, mobility assistance, learning disability assessment, deaf and hard of hearing services including real-time captioning and sign language interpreting services, access technology training and instruction, alternate media and related training, faculty training and support, priority registration, special parking, and accessible and specialized furniture.

Supportive instruction includes courses in English, assistive technology, and college success.

DRC's Access Technology Center (ATC), located in the first floor of the Library/Learning Resource Center (LRC) provides direct instruction in various access technologies as well as an open noncredit lab featuring access to computers, assistive technology, and support from faculty and staff.

Special equipment includes digital audio recorders, assistive listening devices, and other access technology.

The DRC department acts as an advocate for students with disabilities representing their rights and interests on campus as well as with various state and local agencies, including the State Department of Rehabilitation. Further, the DRC supports faculty in their responsibility to administer approved curriculum accommodations through DRC's Testing Center, located in NA-2, as well as serving as a resource and consultant.

Call the DRC for further information at 760-744-1150, ext. 2375, or visit our website at www.palomar.edu/drc.

For questions regarding academic accommodations, please see "Academic Accommodations for Students with Disabilities" in Section 4 of this catalog.

Dreamer Success Program

San Marcos Campus, Carino Dream Village- SU 1 760-744-1150 ext 3557
The Palomar College Dreamer Success Program is committed to providing undocumented students access to diverse, equitable, accessible, inclusive and anti-racist educational opportunities. The purpose of the program is to share knowledge, teach college skills, and build social capital. Through these actions of support, each student will facilitate their own path to their academic and life goals.

For additional information, please call the Dreamer Success Program at 760-744-1150 x 3557, email at dream@palomar.edu, or visit our website at: www.palomar.edu/dream/

Early Childhood Education Lab School

ECELS Bldg., San Marcos Campus, Ext. 2575
Escondido Center, Ext. 8155
The Early Childhood Education Lab School (ECELS) offers infant, toddler, and preschool programs.

The ECE Lab School in San Marcos provides services to approximately 130 children ages 6 months through 5 years old. The ECE Lab School receives funding from the California Department of Education and parent fees. The ECE Lab School serves children of Palomar College students, faculty, staff, and community members. The ECE Lab School also serves as a laboratory for students who are Child Development majors. Students are trained in proper room environments, appropriate group experiences, activities, and techniques.

The ECE Lab School in **San Marcos** is open from 7:30 a.m. to 5:30 p.m., Monday through Friday. Children must be enrolled for a minimum of two days per week. Enrollment is not available on a drop-in basis. Subsidized services are available to the children of income-eligible Palomar College students and community members at no or low cost, based on family size and income set forth by the California Department of Education.

The ECE Lab School in **Escondido** is open from 7:30 a.m. to 5:30 p.m., Monday through Friday. It has two part-day state preschool classrooms with AM and PM sessions and one full-day funded classroom. Part-day sessions are three and a half hours long, and the program runs Monday through Friday. Services are offered to provide developmentally appropriate preschool experiences to children before entering Kindergarten. The program is available to children of any family within the community who are income-eligible and meet the guidelines set forth by the California Department of Education.

For additional information about our programs, please visit our website https://www.palomar.edu/ecelabschool/. To fill out an online waitlist application, go to the Applications tab and choose the program/site of your choice.

Extended Opportunity Programs and Services EOPS/CARE

AA-141, Ext. 2449
Email: eopsadmin@palomar.edu
Website: www.palomar.edu/eops

EOPS is a state-funded program intended to enhance educational access, student retention, and academic and personal success for students who are economically and educationally disadvantaged. The services offered are "over and above" those provided to the general student population and include counseling (academic, career, transfer, financial aid, and personal), priority registration, student success workshops, and support with transition to four-year universities or the workplace. Services may also include book vouchers, school supplies, and financial assistance, depending on available funding.

Eligibility

Students may be eligible for EOPS if they meet the following criteria:

1. Must be a California Resident or AB 540 Eligible
2. Must be enrolled in 12 or more units (Students with a documented disability, accessing accommodations through the Disability Resource Center must be enrolled in 6 or more units)
3. Must have completed fewer than 49 degree-applicable units
4. Must be eligible for the California College Promise Grant (CCPG) A, B, or C with Zero EFC

Additionally, students must meet one of the following criteria:

- Students who have received placement recommendations, based on multiple measures assessments, in degree applicable/transfer-level Math or English coursework with support units.
- Previously enrolled in remedial or developmental coursework
- No high school diploma or GED
- An overall high school GPA below a 2.5
- First generation college student (neither parent has a bachelor's degree)
- Emancipated Foster Youth
- English is/was not the primary language spoken at home

How to Apply

Students interested in applying for EOPS should complete an EOPS Application as well as the Free Application for Federal Student Aid (FAFSA).

CARE

AA-141, Ext. 2449
Email: eops-care@palomar.edu
Website: www.palomar.edu/eops/care

EOPS students who meet the CalWORKs definition of single head of household and who are receiving cash aid (CalWORKs/TANF) for themselves or their children may be eligible for the Cooperative Agencies Resources for Education Program (CARE). CARE students are eligible to receive additional benefits intended to meet the unique needs of single parents. Benefits may include specialized workshops, meal vouchers, school supplies, transportation support, and additional financial assistance.

CalWORKs

AA-141, Ext. 2449
Email: calworksdept@palomar.edu
Website: www.palomar.edu/calworks

The CalWORKS program offers support to students receiving cash aid (TANF/CalWORKs) and provides specialized services to parents who are attending school as part of their welfare-to-work plan with the county. Participants must also be working toward a certificate, AA degree, transfer to a four-year university, or to improve vocational skills. Benefits include: academic support and counseling, priority registration,

student success workshops, work study placement, and verification of welfare to work hours. Students do not have to be full-time to receive benefits.

Foster Youth Support Programs: NextUP and FYRST

AA-141, Ext. 2449
Email: fosterhelp@palomar.edu
Website: www.palomar.edu/fosteryouth

NextUP

NextUP is a supplemental component of EOPS intended to provide resources and support services to students who participated in foster care. Eligible students can access support services including counseling, textbook and supply grants, transportation assistance, grants, priority registration, financial literacy and independent living skill development, advocacy and connection to community resources. Students interested in NextUP must meet the following criteria:

- CA resident or AB 540 eligible
- Age 25 or younger at teh beginning of the academic school year, or previously participated in NextUP prior to Age 26
- In Foster Care on or after 13th birthday
- Enrolled in at least one unit at Palomar College

FYRST

Our Foster Youth Retention Success and Transition or FYRST program is designed to provide a sense of belonging and purpose for current and former foster youth enrolled at Palomar College. Eligible students will benefit from individualized counseling focused on personal and academic success, student workshops covering topics such as independent living and financial literacy, priority registration, advocacy, and connection to community resources. Application information can be found on our website. Students interested in applying for the FYRST program must meet the following criteria:

- Must have previously been a part of the foster care system
- Must provide a verification of dependency letter documenting foster care placement
- Must be enrolled in at least 1 unit
- Age 26 or older

Financial Aid & Scholarship Services (FAVSS)

SSC-1, 760-891-7510, finaid@palomar.edu
Palomar College participates in various federal and state programs that provide its students financial assistance to pay for their educational costs for pursuing an academic program at the College. We provide waivers, grants, scholarships, part-time employment and student loans to eligible students. Please visit our webpage at https://www.palomar.edu/fa/ for detailed information on applications, initial and continuing eligibility, financial assistance programs, deadlines and forms. For general financial aid questions email us at finaid@palomar.edu or contact our office via telephone. Current students should email us from their Palomar College email account and include their Palomar College student ID number in the message. You may stop by our office if you have concerns or questions related to your specific circumstances. To protect your privacy, valid government issued identification will be required to release student specific information. We can provide only limited award and application details over the phone. Please see https://www.palomar.edu/pages/enrollmentservices/student-rightsprivacy-student-records/ for FERPA information.

Please be advised official financial aid communications will be emailed to your Palomar College student email account.

The Free Application for Federal Student Aid (FAFSA)

The FAFSA is required to determine eligibility for all federal student aid programs. The FAFSA is also used to determine eligibility for state programs and Palomar College scholarships. The FAFSA is available to all U.S. citizens and eligible noncitizens. Apply online at https://studentaid.gov/. Eligibility details are available at https://studentaid.gov/understand-aid/eligibility/requirements.

The California Dream Act Application (CADAA)

The CADAA serves as an alternative for eligible students who are unable to submit a FAFSA. To qualify for CADAA, you must meet the nonresident exemption requirements under AB 540 (https://www.palomar.edu/enrollmentservices/residency/assembly-bill-540-ab540/) and fulfill any of the following criteria: undocumented, holding a valid or expired DACA, U-Visa holder, or having Temporary Protected Status (TPS). By completing CADAA, eligible students gain access to various forms of financial aid, including state grants, fee waivers, institutional aid, and scholarships.

It's crucial to understand that CADAA differs from the FAFSA, which encompasses federal grants, loans, and work-study programs. The CADAA is available online at https://dream.csac.ca.gov/. Eligibility details are available at https://www.csac.ca.gov/undocumented-dreamer-students.

Data Matches

Federal student aid applicants are processed using their social security number. The name used on your FAFSA and admissions application must match the name on your social security card to avoid delays in determining your eligibility for student aid.

Students that will submit the CADAA should use the name reported to their high school. Make sure this name is also used on your Palomar College admissions application. If you use a name (such as a nickname) other than the name on your school records, this could prevent you from getting student financial aid or there might be a delay in the awarding of your aid.

Nonresident Deferment

Nonresident Tuition Deferments may be available to students that have been classified as nonresidents by the Admissions Office. Additionally, this deferment request is only available to FAFSA applicants who have a valid and current FAFSA on file and have submitted all required documents. If approved, the nonresident tuition deferment will prevent the student from being dropped due to non-payment until the student's file is reviewed and awarded. Please be advised that deferments made in anticipation of financial aid are not promises of aid. Changes in award amounts due to factors such as enrollment adjustments, or if a student is found ineligible for financial aid at any point, may result in the reduction or cancellation of the fee deferment.

Please contact our Financial Aid Office to see if you qualify for a Nonresident Tuition Deferment.

California College Promise Grant (CCPG)

Formerly known as the Board of Governors Fee Waiver (BOGFW) program, CCPG waives the enrollment fees for eligible California residents and qualified AB540 and AB 1899 students (determined by Enrollment Services). Residency information and forms can be obtained from Enrollment Services, located at the San Marcos Student Services Center, at any of our education centers in Rancho Bernardo, Escondido, Fallbrook, Camp Pendleton https://www.palomar.edu/about/locations/ or online at https://www.palomar.edu/enrollmentservices/residency/. Initial eligibility and awards for CCPG will be made using official FAFSA or CADAA and admissions data.

We also accept paper applications from the following students: (1) Students that may not be able to submit either a FAFSA or CADAA or (2) Students who are dependent on their FAFSA/CADAA, but do not live at home and are not claimed on their parents' taxes. If a student falls into either of these categories, the student may request a paper application by emailing the Financial Aid Office: finaid@palomar.edu.

Cal Grant B, C

Cal Grants are state-funded programs and are awarded to California residents or eligible AB 540 students based on a formula determined by the California Student Aid Commission. The formula includes factors such as income/assets and grade point average. Students must have a minimum enrollment of six (6) units. Awards are prorated based on enrollment. The Cal Grant priority application deadline is March 2nd of each year. However, due to the delay of the 2024-2025 Better FAFSA application launch, the priority deadline was extended to April 2, 2024. For community college students and foster youth, the priority deadline for California is September 3, 2024.

Cal Grant B provides a living allowance to help students pay for books and other college expenses. Eligibility is based on substantial financial need. Students must pursue an eligible associate degree program. Certificate of Achievement programs are NOT eligible for Cal Grant B.

Cal Grant C provides funds to help students enrolled in an occupational, technical, or vocational program (between four (4) and twenty-four (24) months in length), pay for books, tools, equipment, and other college expenses.

Additional Cal Grant Access for Students with Dependents (SWD) is intended for independent students with dependent children under 18 years of age by July 1st of the award year (start of the financial aid award year) and for whom the student will provide more than half of their support between July 1st and June 30th of the award year. Cal Grant Access awards up to $6,000 for qualifying Cal Grant A and B recipients and up to $4,000 for eligible Cal Grant C recipients.

Student Success Completion Grant (SSCG)

This is a California state-funded program. It is awarded to students who are enrolled in full-time (twelve units or more) and who have also been awarded either a Cal Grant B or Cal Grant C. With the SSCG, the more classes you take the more money you may be eligible to receive to stay on track and even get your degree faster.

For more information about the Student Success Completion Grant, including eligibility requirements and application procedures, visit our SSCG information page: https://www.palomar.edu/fa/student-success-completion-grant-sscg/.

Chafee Grant

The California Chafee Grant for foster youth awards up to $5000 a year to students who were in foster care between the ages of 16-18 years old. The grant can be used cover any educational expense. Applicants must submit the FAFSA or CADAA and a Chafee application available at www.chafee.csac.ca.gov. Students must be enrolled in at least half-time (six units) during the fall and/or spring semester and must meet Satisfactory Academic Progress (SAP) before the Chafee grant can be released.

California Dream Act Service Incentive Grant Program (DSIG)

DSIG encourages Dreamer students with a Cal Grant B award to perform community or volunteer service. The California Student Aid Commission (CSAC) will award up to $4,500 per academic year to 2,500 eligible students. This program will require a CADAA and a separate application through CSAC. You can find more information regarding the program and how to apply on this website: https://www.csac.ca.gov/dsig/apply.

Federal Pell Grant

The Federal Pell Grant is a need-based grant awarded to eligible undergraduate students who do not have a bachelor's degree, or professional degree. The amount of Federal Pell Grant awarded is determined by the student's Student Aid Index (SAI), the number of units enrolled, housing plans, and the cost of attendance.

Federal Supplemental Educational Opportunity Grant (FSEOG)

This grant is usually awarded to students who have already been awarded the Federal Pell Grant and have demonstrated high unmet financial need. Students must be enrolled in at least six (6) units. FSEOG funds are limited so students are encouraged to complete all document requirements as early as possible.

Federal Work Study (FWS)

This program offers students the opportunity to earn additional funding through part-time employment on campus. Some tutoring positions may be available off campus. Students must have a minimum enrollment of six (6) units in the fall and spring semesters (only three (3) units in summer semester).

Scholarships

Private scholarships sponsored by individuals and organizations are available. Selection criteria and amounts are determined by the donors and vary. Each scholarship has its own set of eligibility requirements, but students only have to fill out one Palomar College application. Having a FAFSA or CADAA on file is not required for Palomar College scholarships, but some scholarships are based on need. To maximize your opportunities we encourage all students to apply for financial aid to see what other opportunities they could qualify for.

The Scholarship Application process runs once a year between January and March. The application can be found on the student's MyPalomar (eServices) account. There are also various Outside Scholarships that are posted on the Outside Scholarship webpage: https://www.palomar.edu/fa/scholarship1/. Students are encouraged to check our web site at https://www.palomar.edu/fa/scholarships/ for additional scholarship application dates and information.

William D. Ford Federal Direct Loan Programs

This is a federal student loan program in which the government makes loans available to students to be used for educational expenses. Repayment begins six (6) months after the student is no longer enrolled in college or drops below six (6) units of enrollment. Loans do have a loan fee taken out prior to disbursement. Loan fees are available at: https://studentaid.gov/understand-aid/types/loans/subsidized-unsubsidized#other-than-interest-is-there-a-charge-for-this-loan. There are two types of direct loans: subsidized and unsubsidized.

Direct Subsidized Loans are need based loans in which the federal government subsidizes or pays the interest that accrues on the loan while the student is enrolled in school at least half-time, during the student's grace period (the first six months after the student leaves school or drops below half-time) or period of deferment (a postponement of loan payments).

Direct Unsubsidized Loans are not based on financial need. The student is responsible for paying all the interest that accrues on the loan during all periods. Interest payments may be deferred while the student is in school, but the accrued interest will be capitalized.

Although interest rates may vary from year-to-year, the loan will be fixed at that rate once it has been disbursed. For the latest information on Direct Loan interest rates, please visit this webpage: https://studentaid.gov/understand-aid/types/loans/interest-rates

Please note: Palomar College does NOT participate in the Parent Plus Loan program.

Satisfactory Academic Progress (SAP)

Students must declare an eligible major and be working toward the completion of that major to receive financial aid. To receive aid, a student must be making Satisfactory Academic Progress (SAP) regardless of whether he or she has previously received aid.

In order to remain eligible for federal and state grants, federal work study and direct loans, a student recipient is required to maintain certain academic and progress standards in accordance with the Satisfactory Academic Progress (SAP) policy. Palomar College requires that SAP is evaluated every academic year, and measure qualitative (cumulative GPA), quantitative (completion rate), and maximum timeframe standards. SAP will be reviewed annually at the end of the summer semester. The cumulative review will be effective for the following Fall, Spring and Summer terms. However, for students enrolled in programs of one year or less, the review will take place at the end of each term.

More detailed information on our Satisfactory Academic Progress Policy is also available on our web page, https://www.palomar.edu/fa/satisfactory-academic-progress-sap/.

Return to Title IV (R2T4)

Title IV financial aid recipients who withdraw from all classes or are administratively withdrawn from all classes may be required to return a portion of the financial aid they received. The Financial Aid office will calculate the percentage of financial aid earned and unearned for the given term. Title IV financial aid recipients who receive an overpayment will be required to return funds in the amount necessary to eliminate the overpayment. The student will be notified if they are required to return any Title IV funds.

More detailed information on our Return to Title IV policy is also available on our web page, https://www.palomar.edu/fa/return-to-title-iv-r2t4-overpayment-policy/ .

Student Financial Aid Help Directory

- **Federal Student Information Center**
  For questions about federal student aid:
  Monday-Friday (800) 433-3243 at 8:00 a.m. to 10:00 p.m. (EST)
  Saturday: 11:00 a.m. - 5:00 p.m.
- **U.S. Department of Education**
  Federal student aid information: https://studentaid.gov
- **Free Application for Federal Student Aid (FAFSA)**
  To submit a financial aid application online, or to review your FAFSA information or make changes visit: https://studentaid.gov/
- **California Dream Act Application (CADAA)**
  To submit the California Dream Act Application, visit the California Student Aid Commission (CSAC) by visiting https://dream.csac.ca.gov/
- **California Student Aid Commission (CSAC)**
  For information about California state-based financial aid information, please contact the California Student Aid Commission (CSAC) by visiting http://www.csac.ca.gov/

- **National Student Loan Data System (NSLDS)**
  For information regarding a student's detailed loan history and Federal Pell Grant Lifetime Eligibility Used, visit https://nsldsfap.ed.gov/login
- **Debt Resolution Services**
  For information regarding defaulted loans and overpayment issues visit https://myeddebt.ed.gov/borrower/ or contact by phone 1-800-621-3115
- **Internal Revenue Service**
  For a free copy of "IRS Tax Transcript" visit the Internal Revenue Services at: https://www.irs.gov/individuals/get-transcript

Health Services

Palomar College Health Services provides students with easy access to medical services, behavioral health counseling services and health promotion programs. Students that are currently enrolled and have paid the health fee (G.B. Policy 5030.3 under Tuition and Fees Schedule), are eligible for services. Additional information is available on the Health Services webpage: https://www.palomar.edu/healthservices/.

Student Health Center

Phone: 760-891-7530
E-mail: studenthealthcenters@palomar.edu
San Marcos Campus Location: HC building

The San Marcos Student Health Center is located at the north end of campus in the HC building. Our regular hours of operation are Monday-Thursday from 8:00 a.m. to 4:30 p.m. and Friday from 8:00 a.m. to 2:00 p.m. The Student Health Center offers services in person and via telehealth formats, including secure video and telephone, with a Registered Nurse, Nurse Practitioner or Medical Doctor. Appointments can be made by calling 760-891-7530.

Primary care appointments are free of charge and include respiratory, dermatology, gynecology, family planning, prescription call-in, health education, referrals and more. Medical services provided for a small fee include: a variety of physical exams for athletic sports, medical program admission physical exams(nursing, dental assisting, EMT, Paramedic, Firefighting and Police Academies), child development, DMV; immunizations (including TB testing); specialized exams/procedures (e.g. Pap smear test, wart removal); specialized treatments (bandaging, respiratory treatment); limited prescription medications; vision and hearing testing, laboratory testing and limited urgent care/emergency medicine.

A Registered Nurse is available weekly on a limited basis at the Escondido Education Center and the Rancho Bernardo Education Center. Zoom Rooms are available for students to access confidential telehealth appointments at the San Marcos, Fallbrook, Escondido, and Rancho Bernardo Education Centers. Please call the Student Health Centers at 760-891-7530 for availability.

Behavioral Health Counseling Services

Phone: 760-891-7531
E-mail: bhcs@palomar.edu
San Marcos Campus Location: NB Building, Room 2

The San Marcos Behavioral Health Counseling Services is located at the north end of campus in the NB building, room 2. Our regular hours of operation are Monday-Thursday from 8:00 a.m. to 4:30 p.m. and Friday from 8:00 a.m. to 2:00 p.m. Services are available in person and via telehealth formats, including secure video and telephone, with a licensed Behavioral Health counselor/therapist or graduate level intern. Appointments can be made by calling 760-891-7531.

Behavioral Health Counseling Services provides short term counseling visits that are free of charge. Standard services provided include: assessment and treatment of anxiety and depression, substance abuse and addiction, emotional trauma, body image disorders, significant relationship and family conflicts, assessment and diagnosis of mental health disorders. The number of counseling sessions are determined by a clinical assessment and the BHCS therapist/supervisor.

A Behavioral Health therapist is available weekly on a limited basis at the Escondido, Rancho Bernardo, and Fallbrook Education Centers. Zoom Rooms are available for students to access confidential telehealth appointments at the San Marcos, Fallbrook, Escondido, and Rancho Bernardo Education Centers. Please call Behavioral Health Counseling Services at 760-891-7531 for availability.

Health Promotion

Phone: 760-891-7530
E-mail: swag@palomar.edu
San Marcos Campus Location: NB Building, Room 1

The Health Promotion office is located at the north end of campus in the NB building, room 1. Our regular hours of operation are Monday-Thursday from 8:00 a.m. to 4:30 p.m. and Friday from 8:00 a.m. to 2:00 p.m.

Health promotion and wellness programs are offered throughout the year to assist students in establishing healthy lifestyles and to connect students with on and off campus resources. Detailed information on upcoming events and programs is available on our online Events Calendar. Health education programs cover a variety of topics such as: Alcohol and Drug Abuse, Sexual Assault, Breast and Skin Cancer, Heart Health, Immunizations, Vaping/Smoking, Mental Health Awareness and Screening, Stress Reduction, Suicide Prevention and much more.

Classroom presentations provided by Student Wellness Advocacy Group (SWAG) peer mentors and staff can be requested on our website. Topics include an overview of services offered by Health Services as well as specific topics like Stress Management and Depression/Suicide.

Native Student Support Program for Inclusion, Resilience and Education (NSPIRE), also known as (NASSSP)

NSPIRE is dedicated to supporting our Native American (American Indian/Alaska Native) students at Palomar College by providing a supportive space that honors their lived experiences. We are committed to fostering an environment where tribal traditions, values, practices, and sovereignty are respected and integrated, while also ensuring success within mainstream educational pathways. These supportive actions guide our Native students in developing their paths for their academic and personal goals. For more information please call (760) 744-1150 ext 3772 or email us at nspire@palomar.edu or connect through our website: https://www.palomar.edu/nasssp/

Other Services

Bookstore, Campus Tours, Cashiering, Food, and Library Services

Bookstore Services

SU Bldg., Ext. 2220
The Palomar College Bookstore provides print and digital textbooks for sale and/or rent. The Bookstore also provides supplemental reading materials, supplies, Palomar-imprinted merchandise, as well as computer products including laptops, tablets, and educationally discounted software to students, staff, and faculty.

Textbook services are provided by the bookstore at most Educational Center locations. Please check the Class Schedule for exact times and locations. The Bookstore is a lease operation run by Follett Higher Education Group and is responsible for its own income and expenses. Hours of operation for the San Marcos campus vary throughout the year. Please visit www.palomarstore.com for the most current information on the Palomar College Bookstore.

Cashier Services

San Marcos Campus
Administration Building (A-2), ext. 2114

The Cashier's Office processes all payments made to Palomar College including tuition and mandatory fees, parking citations, Student Activity Cards, MTS Regional passes, holds and fines. Students can purchase discount MTS Regional Passes at the Cashier's Office with a current semester Student Activity Card (Only available in San Marcos).

For more information about Cashier Services, please visit the web site at https://www.palomar.edu/fiscalservices/home/cashier-services/

Campus Tours and Outreach Services

Ext. 3756
The department of Outreach Services provides presentations throughout our district, represents the institution at college fairs, and offers support to prospective students at any stage in their educational journey. Visit our campus for an information session or walking campus tour and learn about our degree offerings and student support services, while we connect you to the resources that will launch your academic success. Individual, group, veteran/military and academic specialized tours are available. For more information, please contact Outreach Services at (760) 744-1150, Ext. 3756 or outreach@palomar.edu. Please visit www.palomar.edu/tours to request any of our tours.

Food Services

SU Bldg., Ext. 2232
Dining Services offers a wide range of options for students, faculty, staff, and visitors on the Palomar College Campus.

Comet Café: (located next to the Bookstore) offers a variety of freshly prepared and grab-and-go food options to choose from, served in a food court environment. For convenience on the go, the food court also carries an assortment of easy to heat meals, snacks and beverages.

Student Union: The Coffee Shop prepares custom hand-crafted Espresso and delicious brewed coffee with locally fresh-roasted and ground coffee beans. They also offer delicious boba and a variety of cold and hot tea. If you're hungry, try a cinnamon roll, muffins, pastries, bagels, or other quick breakfast offerings.

Catering Services: Available for On-Campus Events with an array of food and beverage selections designed to meet a variety of needs. Food Services is dedicated to providing you with the highest quality of catering services, from a simple coffee break or meeting snack to full receptions and banquets. Please visit the Food Services website at https://www.palomar.edu/foodservices/ for more information, obtain a quote for catering, and to place a catering order.

Library Services

Call the Library, Ext. 2612
The Library is located at the San Marcos campus and at the Escondido, Fallbrook, and Rancho Bernardo Centers. The Library provides Palomar College students, faculty and staff with over 135,000 books, periodicals, and media resources in all subjects and disciplines. Students have access to millions more full-text journal articles, ebooks, and streaming films both on- and off-campus through the Library's online research databases. On-site reference and research assistance is available from faculty librarians during business hours, or online 24/7 through the LibChat chat service. Additionally, the Library offers a number of other programs and services to help students succeed at Palomar, including class textbooks for in-library use, online tutorials, research classes and interlibrary loan of materials from other libraries. Free campus wifi and internet-connected computers are available for use at no charge and printers provide low-cost printing and copying options. All online resources and information about Library programs and services may be found using the Library's website: https://www.palomar.edu/library/ You can send emails to library@palomar.edu.

Pride Center

In keeping with Palomar College's commitment to create a safe campus, the Pride Center exists to provide a space for members of the college community to explore issues relating to sexual and gender identities, practices, and politics. The Center offers LGBTQ students and staff a secure place to study, converse, explore, and join in common celebration of their experience. It also promotes student leadership, professional and academic equity, and visibility of gender and sexual minorities in addition to providing educational resources and programs for the LGBTQ and Allies community. We value intersectionality and racial and economic justice and support other campus groups in striving towards such justice. While the Center welcomes all Palomar students and staff regardless of sexual orientation or gender identity, it serves first and foremost as a Safe Zone for the campus LGBTQ community.

Dr. Ben Mudgett, Faculty Pride Coordinator, Email: pride@palomar.edu

Puente

San Marcos Campus, Carino Dream Village- SU 1 760-744-1150 ext 2975
The Puente project is a national-award winning program that has helped thousands of students transfer to a university, earn degrees, and return to the community as leaders and mentors to future generations. The Puente program is open to all students and is designed to meet the needs of students impacted with low rates of degree completion and low rates of enrollment at four-year colleges. Students come from all cultural and ethnic backgrounds and many are first in their families to attend college. Puente students commit to two consecutive semesters of English instruction (ENGL C1000E and ENGL C1001), Counseling (Coun 110 & Coun 101), and mentoring. For additional information, please visit our website at www.palomar.edu/puente.

Rising Scholars Program (formerly Transitions Program)

Palomar College Rising Scholars comprise a thriving community of formerly incarcerated people dedicated to personal and professional success. The program is also a proud member of the Rising Scholars Network that supports currently and formerly incarcerated individuals across the state.The program encompasses two components: classes that take place at the Vista Detention Facility and an on-campus program. At the Vista Detention Facility, Palomar professors teach credit courses to currently incarcerated students. On campus, formerly incarcerated students can join the program anytime and become part of a thriving community of people liberating themselves through education. The program has a dedicated space on the Palomar College San Marcos campus where students can get a snack and take a breather between classes, peer mentor support, meet with staff, use computers for schoolwork, and more. For additional information, please call the Rising Scholars Program at 760-744-1150 x 2648, email at rise@palomar.edu, or visit our website at: https://www.palomar.edu/risingscholars/

STEM Center (Science, Technology, Engineering, Mathematics)

NS-312, San Marcos Campus, Ext. 2265
The STEM Center provides a variety of services including independent group and study space, STEM success programs, specific STEM counseling, computer use, access to pay-per-print station, laptops, and reference materials available for checkout. These services are available to all Palomar College students at no cost.

Fall and Spring hours:
Monday through Thursday, 8:00 a.m. - 5:00 p.m. Closed on Fridays. Summer schedule will vary.

To find out more about our services, please visit our website at https://www.palomar.edu/stem/.

Student Equity & Achievement

Palomar College embraces it's identity as a Hispanic Serving Institution that is majority Students of Color and is committed to achieving equity in educational outcomes for students throughout their educational journey. An analysis of student data revealed disproportionate impact among Asian, Filipino, American Indian/Alaska Native, Women, Latina/o/x, Black/African American, veterans, foster youth, first generation , LGBTQIA, economically disadvantaged, and students with disabilities.   Our newly developed plan provides intrusive, innovative, intentional goals and outcomes intended to eradicate equity gaps most deeply experienced by Black/African American and Latina/o/x student communities.

Student Life & Leadership

SU-201, Ext. 2594
The Office of Student Life & Leadership is committed to enhancing your college experience; encouraging students to become actively engaged within the campus community and beyond. Student Life & Leadership encompasses providing basic need resources, food assistance, activity card benefits, promoting student engagement in clubs and assisting the Associated Student Government (ASG). Additionally, the office is responsible for overseeing student rights and responsibilities and student grievances. Information for The Anita & Stan Maag Food & Nutrition Center, Access & Engagement Center and the Basic Needs Hub can be found on the Student Life & Leadership website.

The Anita & Stan Maag Food & Nutrition Center

SU-40A, Ext. 7540
The Food & Nutrition Center is committed to supporting a healthy and safe environment for our campus community. The Food & Nutrition Center has provided expanded hunger relief since 1983. Students or staff are also eligible to sign up for the free diaper program, hygiene and feminine hygiene products. We also provide application assistance and information for CalFresh benefits (x2822). Limited Food & Nutrition services are also available at our Rancho Bernardo, Escondido and Fallbrook Education Centers.

For emergency food and/or personal care items after hours, contact the Palomar College Police Department at 760-891-7273. For more information about programs and events, visit SU-40 or visit our Food & Nutrition Center website.

Basic Needs Resources (The Hub)

SU-22, Ext. 2529
The Hub is a valuable resource for programs and services to connect students with food, housing and financial security. The Hub serves as a safe place to relax and to be connected with on- and off-campus resources. For more information please visit SU-22 or The Hub

Success, Equity, Advocacy & Leadership (SEAL Center)

SU-18, Ext. 2846
The SEAL Center provides an engaging meeting space for all students and clubs to meet. The SEAL Center hosts Movie Days through the Student Life & Leadership Office as well as various events hosted by clubs or campus partners. To reserve this space, please contact the Access & Engagement Center at 760-744-1150 x2846. For more information please visit SU-19 or the Student Life & Leadership website.

Access & Engagement Center (A&E)

SU-19, Ext. 2846
The A&E serves students by providing the sale of student activity cards and student benefits such as printing, scantrons, copying services and exam books. The A&E Center also facilitates reservation requests to utilize the SEAL Center in SU-18 as well as monitoring use of equipment through the club storage. For further details please visit SU-19 or call the Access & Engagement Center at 760-744-1150 x2846.

Associated Student Government (ASG)

SU-202/203, Ext. 3766
(ASG) is a representation of the official student organization. ASG represents and advocates for the student body by engaging the shared governance committees in a student-centered focus. Additionally, ASG focuses on promoting student life, engagement and retention through campus events. Join your ASG today to make a difference and have the opportunity to travel for legislative affairs. For more information on how to get involved, visit SU-202/203 or the ASG website.

Student Participation in Governance

The Palomar College shared governance structure provides for representation of students. Students are appointed to College councils and committees by the Associated Student Government. For further information call 760-744-1150, ext. 3766 or 2594.

Student Life & Clubs

SU-21A, Ext. 2312
Clubs provide students with opportunities for enhancing their personal, social, recreational, religious, cultural and civic development. Students who wish to get involved in a club have the ability to network with other students, develop leadership skills and feel a sense of community while on campus. The student clubs are vital to promoting student life on campus and coordinating events. Each academic year, clubs will have to complete a reinstatement packet through the Office of Student Life & Leadership. For further details on clubs, please contact 760-744-1150 x2312 or visit the Campus Clubs website.

Teaching & Learning Centers

Teaching and Learning Center Escondido

ESC-500, Escondido Center, Ext. 8171
The Teaching and Learning Center (TLC) Escondido is a multi- functional space for students to meet with a tutor or work on assignments independently. There is a large open floor plan with study rooms, and a large workroom for students, tutors, and instructors to collaborate. Laptops, calculators, and whiteboards are available. Printing is also available in the TLC.

The TLC is located at the Palomar College Escondido Center in Room 500: 1951 East Valley Parkway, Escondido, CA 92027. Visit our website at https://www.palomar.edu/tlc-esc/. The TLC Escondido is open to students Monday through Thursday from 8:00 AM to 6:00 PM.

Teaching and Learning Center Fallbrook

K-01, Fallbrook Center, Ext. 8689
The Teaching and Learning Center (TLC) Fallbrook is located at the Fallbrook Education Center. Sharing a space with the Library, the TLC provides students with an ideal space that is a one-stop-shop where they can study on their own, seek the help of a tutor, get help from a librarian, schedule test proctoring, meet with instructors, use a computer, print their assignments, and find material related to their classes.

The TLC Fallbrook also organizes workshops designed to support the classes offered at the Fallbrook Education Center. Our staff keeps a close relationship with instructors, so that students' needs are considered during our everyday operations. The Fallbrook Education Center can be found at 35090 Horse Ranch Creek Road, Fallbrook, CA 92028. Please visit us at www.palomar.edu/tlc-fallbrook. The TLC Fallbrook is open to students Monday through Thursday from 8:00 AM to 5:15 PM.

Teaching and Learning Center Rancho Bernardo

SEC-401, Rancho Benardo Center, Ext. 8563
The Teaching and Learning Center (TLC) Rancho Bernardo is a multi- functional space for students to meet with a tutor or work on assignments independently. There is a large open floor plan with wonderful views, three study rooms, and a large workroom for students,

tutors, and instructors to collaborate. Laptops, calculators, whiteboards, and anatomical models are available. Printing is also available in the TLC.

The TLC is located at the Palomar College Rancho Bernardo Center on the 4th floor: 11111 Rancho Bernardo Road San Diego, CA 92127. Visit our website at https://www.palomar.edu/tlc-ranchobernardo/. Visit us: Monday – Thursday 7:30am – 6:00pm

Palomar College General Tutoring Center for Writing, Literary, and Social Sciences Departments

LRC-2nd floor, San Marcos Campus, Ext. 2448
In the Palomar College General Tutoring Center, located in LRC-2nd floor, tutors are available for 30-minute walk-in tutoring sessions. The Tutoring Center provides tutoring in the following subjects: English, Writing, Reading, Business & Accounting, ASL, Arts and Humanities, Social Sciences and courses across the curriculum at Palomar College. On-going, hour-long appointments are available for EOPS students, DRC students, and student equity groups (must be approved by the respected programs for appointments). Students are served on a walk-in, online and appointment basis. We have the same goal as the students we help: Working toward success in the classroom! We strive to give you the skills and confidence to succeed in college on your own. All student tutors receive professional certification through the College Reading and Learning Association upon completing their first semester of training. Students must be registered for the course(s) for which they seek assistance. Tutoring is available Monday - Thursday 8:00am - 5:00pm, Fridays 9am - 2:00pm. Visit our website for more information, www.palomar.edu/tutoring.

TRIO Programs

Since 1965, America's federally funded TRIO programs have been helping students from low-income families and first generation backgrounds to finish high school, succeed in college, and successfully graduate and/or transfer. These programs help assure that students from disadvantaged backgrounds have the support necessary to enter college and graduate and/or transfer to a four-year postsecondary institution.

There are eight federally-funded TRIO programs nationally, and four are hosted at Palomar College under the Student Success, Equity and Counseling Division. These are Student Support Services, North County Educational Opportunity Center (NCEOC), Upward Bound, and Educational Talent Search.

TRIO/Student Support Services

TCB-1, Ext. 2761
TRIO/Student Support Services at Palomar College is designed to provide support services to potential transfer college students and enhance their chances for successful completion as they pursue their baccalaureate degree.

In order to receive assistance through TRIO/Student Support Services, students must be enrolled at Palomar College, need the services of the program, and meet eligibility requirements. Program services include academic advising, tutoring, priority registration, personal, career and transfer counseling, college/university visits, textbook assistance, student success workshops, financial aid information, and cultural events. All participants must be either low-income, first-generation college students, and/or registered with Palomar's Disablility Resource Center (DRC).

For further information, call TRIO/SSS at 760-744-1150, ext. 2761, email at triosss@palomar.edu, or visit our web site at www.palomar.edu/triosss.

TRIO/North County Educational Opportunity Center

ST-26, Ext. 2434 or Main Lobby, Room 6, Escondido
Education Center, Ext. 8110
The Palomar College North County Educational Opportunity Center (NCEOC) is a program funded by the U.S. Department of Education. NCEOC staff provides information and advising to qualified adults (low-income and/or first generation college) who want to enter or continue attending an adult school (GED program), community college (including ESL, vocational, certificate and degree programs), or other educational institutions (after high school).

The program's staff provides academic advisement, career advisement, financial aid information, access to postsecondary tutoring, test preparation, and workshops designed to support student success.

For more information about NCEOC eligibility or to volunteer or do an internship with the program, call (760) 744-1150, ext. 8110, or visit us at: www.palomar.edu/nceoc.

TRIO/Upward Bound

ESC-4, Escondido Education Center, Ext. 8118
TRIO/Upward Bound at Palomar College helps 125 local area high school students be academically successful, while preparing for higher education choices. Participants receive supplemental instruction and tutoring/mentoring in literature, composition, foreign language, mathematics, and science at Palomar College and after school, on Saturdays, and during the summer.

In order to participate in TRIO/Upward Bound, students must be enrolled in the following high schools: San Marcos, Oceanside, El Camino, Escondido, Orange Glen, San Pasqual, Vista, Rancho Buena Vista, and Fallbrook. Program services include academic/career advising, tutorial program, college admission assistance, financial aid information, study skills workshops, PSAT/SAT/ACT preparation, college campus visitations, educational/cultural trips, parent workshops, and a summer residential program.

The Upward Bound program hires Palomar College students and staff/faculty to serve as tutors, mentors, and Saturday instructors. Anyone interested should contact the UB office, 760-744-1150, ext. 8118, or visit us at www.palomar.edu/upwardbound.

TRIO/Educational Talent Search

Escondido Education Center, ESC-810, Ext. 8131
TRIO/Educational Talent Search at Palomar College helps 500 local area middle and high school students be academically successful, while preparing for higher education choices. Participants receive tutoring/mentoring and academic advising at Palomar College, after school, on Saturdays, and during the summer.

In order to participate in TRIO/Educational Talent Search, students must be enrolled in the following high schools: Mission Middle, Del Dios Middle, Hidden Valley Middle, Escondido High, or Orange Glen High. The program provides academic/career advising and financial aid and financial literacy information to its participants, and encourages them to graduate from high school and continue on and complete their postsecondary education.

The Educational Talent Search program hires Palomar College students and staff/faculty to serve as tutors, mentors, and Saturday instructors. Anyone interested should contact the ETS office, 760-744-1150, ext. 8131, or visit us at www.palomar.edu/ets.

Tutoring Resources

Locations and Services

Palomar College General Tutoring Center for ASL, Business, Music, Social / Behavioral Sciences, Other Disciplines

LRC, 2nd Floor, San Marcos Campus, Ext. 2448
In the Palomar College General Tutoring Center, located in LRC-210, tutors are available for 30-minute tutoring sessions. The Tutoring Center provides tutoring in the following subjects: Accounting, ASL, Business, Music, Social & Behavioral Sciences, and courses across the curriculum at Palomar College. On-going, hour-long appointments are available for EOPS, DRC, TRiO, and student equity groups. Students are served on a walk-in, online, and/or appointment basis. We have the same goal as the students we help: Working toward success in the classroom! We strive to give you the skills and confidence to succeed in college on your own. All student tutors receive professional certification through the College Reading and Learning Association upon completing their first semester of training. Students must be registered for the course(s) for which they seek assistance. Tutoring is available Monday - Thursday 8:00am - 6:00pm, Fridays 8am - 2:00pm. Visit our website for more information, www.palomar.edu/tutoring.

ESL Tutoring Center

H-118, San Marcos Campus, Ext. 4482
Tutoring services are offered by the ESL Tutoring Center in H-118. These services include free ESL Tutoring, access to course textbooks, and access to computers and a printer. The ESL tutoring center hours for S 2024 are Monday through Thursday from 8:00 am – 1:30 pm and 2 pm- 5 pm. Walk-ins are welcome; however, to guarantee your own session with a tutor, you should make an appointment by seeing staff in H-118 or by calling (760) 744-1150 ext. 4482.

Math & Science Learning Center

LRC-318, San Marcos Campus, Ext. 2718
Free walk-in and online tutoring are available in various levels of mathematics, chemistry, biology, earth science, engineering, life science, physics, and other STEM courses. Enrollment in subject area is required. Access to computers, laptops, access to pay-per-print station, calculators, study space, reference materials available for checkout and usage of some textbooks is available.

Room: LRC-318, San Marcos campus, 760-744-1150, ext. 2718 https://www.palomar.edu/mslc

Fall and Spring Hours (both in person and online):
Monday through Thursday, 8 a.m. to 8 p.m., Friday, 8 a.m. to 2 p.m., and Saturdays are 9 a.m. to 1 p.m.

Summer Session Hours (both in person and online): Monday through Thursday, 8 a.m. to 5 p.m., Closed on Fridays, Saturdays, and Sundays.

Teaching & Learning Center Escondido

ESC-500, Escondido Center, Ext. 8171
The Teaching and Learning Center (TLC) Escondido is a multi-functional space for students to meet with a tutor or work on assignments independently. There is a large open floor plan with study rooms, and a large workroom for students, tutors, and instructors to collaborate. Laptops, calculators, and whiteboards are available. Printing is also available in the TLC.

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The TLC is located at the Palomar College Rancho Bernardo Center on the 4th floor: 11111 Rancho Bernardo Road San Diego, CA 92127. Visit our website at https://www.palomar.edu/tlc-ranchobernardo/. Visit us: Monday – Thursday 7:30am – 6:00pm

World Languages Resource Center (WLRC)

H-125, San Marcos Campus, Ext. 2564

The World Languages Resource Center offers tutoring, language resources, and assistance to students studying Arabic, Chinese, French, German, Italian, Japanese, and Spanish. Enrollment in the subject area is required. The center is located in the Humanities Building, room H-125 on the San Marcos campus. For hours and information, please call 760.744.1150, ext. 2564 or visit: http://www.palomar.edu/worldlanguages.

Writing and Reading Center

LRC-210 floor, San Marcos Campus, Ext. 2778
The Writing and Reading Center provides free walk-in tutoring for writing across the disciplines. Students can receive tutoring assistance in writing and reading for all English Department courses and for any course taught at Palomar. Our tutors can also help with college applications, resumes, and other non-instructional materials. The center offers access to computers, a pay-per-print station, and reference materials as well.

Fall and Spring hours: Monday through Thursday, 8:00 a.m. - 6:00 p.m. Fridays, 8:00 a.m. - 2:00 p.m.

To find out more about our services, please visit https://www.palomar.edu/tutoringservices/.

Umoja Program

San Marcos Campus, Carino Dream Village, SU-1 760-744-1150 ext 2392
Umoja (a Kiswahili word meaning unity) is a community and critical resource dedicated to enhancing the cultural and educational experiences of African American students. Through a holistic approach, the UMOJA program encourages, engages, nurtures, and connects with students. Umoja creates a welcoming enviornment that fosters self-efficacy and a strong desire to succeed. Furthermore, the Umoja program encourages socially responsible leadership from students, not only in their communitites but in the world as a whole. Umoja is a program designed to facilitate a smooth transition from college and successfully transfer to a four-year university. Participating students receive personalized mentoring and academic counseling. Students will also take part in a learning community that includes courses in English and Counseling and receive mentoring and direct counseling. For additional information, please visit our website at www.palomar.edu/umoja.

Veterans' Services

ST-52/ST-60, Ext. 2173, veterans@palomar.edu

The Veterans Resource Center, located in the ST building, provides information on veterans' education benefits and services, and helps military affiliated students with applications and forms needed to utilize their VA Education Benefits.

The Veterans Resource Center provides a place for studying, computer and printer use for classwork, tutoring, peer mentoring, referral assistance, academic and personal counseling, and a place to network, collaborate, and relax with other military-affiliated students. For more information, visit the Veterans' Resource Center website, palomar.edu/veterans/.

New students are required to:

1. Complete the Palomar College Application for admission.
2. Apply for VA Education Benefits online at www.va.gov
3. Submit a VA Coding Request Form to avoid being dropped for non-payment. Students using Chapter 30 and Chapter 1606 are responsible for paying their tuition and fees within 10 days of enrollment. Students who fail to post payment MAY BE DROPPED from all registered classes.
4. Submit official transcripts from all previous schools, colleges, military training (JST or CCAF) and CLEP. Transcripts from colleges and universities should be submitted electronically or directly to the Palomar College Records Office.
5. Schedule a counseling appointment with a Veterans Academic Counselor to obtain an education plan and declaration of major.
6. Register for classes. Students should use their education plan as a guide for choosing classes. The VA does not cover classes that are not required for a student's declared major.
7. Request certification and submit additional forms listed on the Veterans Services new student checklist.

It is strongly recommended that students request certification of their enrollment with the Veterans Resource Center during priority enrollment for the upcoming term. Processing times of the Muskogee Regional VA Processing Office vary, and late certification may result in

delayed payments. Any changes to a student's schedule must be reported to the Veterans Resource Center. Failure to notify the Veterans Resource Center of schedule changes may result in an overpayment to the student and debt owed to the VA.

The above paragraphs do not include all information, requirements, and resources available to military affiliated students. Students may contact the Veterans Resource Center or visit the department's website for additional information.

Peer Advisors for Veterans Education (PAVE)

ST-60, Ext. 3795, pave@palomar.edu
PAVE is a peer support program that connects incoming military affiliated students on college campuses with other military affiliated students who are trained as Peer Advisors who can help them navigate college life, address challenges they may face, refer them to appropriate resources on and off campus, and provide ongoing support. PAVE builds on the camaraderie veterans experience in the military to create a sense of community and connectedness that contributes to academic and personal success. New students using VA Education Benefits are automatically enrolled in PAVE and can opt out at any time.

California Veteran Dependent Exemption

(College Fee Waiver)
The College Fee Waiver for Veteran Dependents benefit waives mandatory system-wide tuition and fees at any State of California Community College, California State University, or University of California campus. This program does not cover the expense of books, parking or room and board. There are four plans under which dependents of Veterans may be eligible. To determine eligibility, visit the CalVet website or a VA County Veteran Service Office.

The student must submit the College Fee Waiver application to a VA County Service Office. Once approved, the student receives a College Fee Waiver Authorization. This authorization should be turned into the Veterans Resource Center for processing.

ConAP Program

ConAP, a joint program between the Army and Palomar College, admits new soldiers to the College at the same time they enlist in the Army or Army Reserve. Army recruiters refer new soldiers to the College. Eligible soldiers are admitted, either on a full or provisional basis with enrollment deferred until completion of active military services. For more information contact your local Army recruiter.

Servicemembers Opportunity Colleges Consortium

Palomar College is a member of the Servicemembers Opportunity Colleges (SOC) Consortium. The SOC Consortium consists of colleges and universities committed to expanding and improving voluntary postsecondary educational opportunities for service members worldwide. SOC Consortium members subscribe to principles and criteria to ensure that quality academic programs are available to active-duty military students, their family members, and veterans. A list of current SOC Consortium member institutions can be found on the SOC website at gosoced.org.

Palomar College provides academic assistance to active-duty personnel which includes program planning and guidance in understanding educational options, acceptance of traditional and nontraditional learning experiences, tutoring, or similar learning opportunities. Courses are offered in the evening, on weekends or other nontraditional time frames, and at the Camp Pendleton Marine Corps base.

SOC Degree Network System

Palomar College is a member of the SOC Degree Network System, a subgroup of SOC Consortium member institutions selected by the military Services to deliver specific associate and bachelor's degree programs to servicemembers and their families. As a member of the DNS, we have agreed to adhere to academic policies intended to support military students in their academic endeavors towards degree completion.

SOC operates the 2- and 4-year Degree Network System for the Army (SOCAD), Navy (SOCNAV), Marine Corps (SOCMAR), and Coast Guard (SOCCOAST). Palomar College is approved to offer SOCNAV and SOCMAR programs at the associate degree level. For more information, contact the Palomar College Camp Pendleton Center at 760-725-6626.

4 RIGHTS
and
RESPONSIBILITIES

Each student is responsible for following the rules and regulations in this catalog. Furthermore, each student is responsible for his/her enrollment in classes and for attending classes. The College is not liable if the student fails to read and understand the rules.

Academic Accommodations for Students with Disabilities

The Palomar Community College District (PCCD) is committed to all provisions of Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act (ADA) of 1990, and Section 508 of the Rehabilitation Act of 1973. Students with verified disabilities who may require academic adjustments or auxiliary aids are advised to contact the Disability Resource Center (DRC). It is strongly recommended that students complete the intake process with a DRC Counselor well before classes begin to ensure timely provision of services. For further information regarding academic accommodation procedures, please contact DRC at 760-744-1150, ext. 2375 or visit our website at www.palomar.edu/drc. Questions regarding academic accommodations may also be directed to the College ADA Officer at 760-744-1150, ext. 2154.

Academic Integrity

The Center for Academic Integrity at Duke University* defines academic integrity as a commitment, even in the face of adversity, to five fundamental values: honesty, trust, fairness, respect, and responsibility. From these values flow principles of behavior that enable academic communities to translate ideals into action.

Palomar College is wholly committed to the idea and ideals of academic integrity. We embrace and adopt the definition and related principles of academic integrity provided by the Center for Academic Integrity stated in the paragraph above. Following are the explanations of the five principles as provided by the Center for Academic Integrity and adopted by Palomar College.

1. **Honesty:** Begins with oneself and extends to others. In the quest for knowledge, we must be honest with ourselves and with each other, whether in the classroom, laboratory, meeting, library, or on the playing field.
2. **Trust:** Only with trust can we believe in the research and efforts of others and move forward with new work. Only with trust can we collaborate with individuals, sharing information and ideas without concern that our work will be misappropriated or misused, our reputations diminished, or our academic careers harmed. Only with trust can our communities believe in the social and economic value and meaning of an institution's scholarship and degrees.
3. **Fairness:** Important components of fairness are predict ability, clear expectations, and a consistent and just response to dishonesty. All campus constituencies have a role in ensuring fairness and a lapse by one member of the community does not excuse misconduct by another.
4. **Respect:** Demonstrated by attending class, being on time, paying attention, following instructions, listening to other points of view, being prepared and contributing to discussions, meeting academic deadlines, and performing to the best of our ability. Being rude, demeaning, or disruptive is the antithesis of respectful conduct. We show respect for the work of others by acknowledging our intellectual debts through proper identification of sources.
5. **Responsibility:** Shared responsibility distributes the power to effect change, helps overcome apathy, and stimulates personal investment in upholding academic integrity standards. Being responsible means taking action against wrongdoing, despite peer pressure, fear, loyalty, or compassion. At a minimum, individuals should take responsibility for their own honesty and should discourage and seek to prevent misconduct by others. Whatever the circumstances, members of an academic community must not tolerate or ignore dishonesty on the part of others.

*The Center for Academic Integrity is affiliated with the Kenan Ethics Program at Duke University in Durham, North Carolina.

Debts Owed to the College

Debts occur when a student fails to repay money borrowed from the College, violates a student financial aid contract, fails to pay tuition and/or enrollment fees, library fines, or bookstore charges. Debts also occur when the student fails to reimburse the College for a returned check, does not return or account for athletic equipment/uniforms, or fails to pay scheduled fees for other services provided by the College. This list of debts is not all inclusive and may include others not specifically listed. If a delinquent debt is sent to the Chancellor's Office Tax Offset Program or another collection agency, a 33% penalty charge will be added to the balance owed. See https://www.palomar.edu/fiscalservices/past-due-amounts/ for more information.

Drugs and Alcohol Policy

According to BP 3550, it is the policy of the Palomar Community College District to provide, maintain, encourage, and support a drug-free and alcohol-free campus. The commitment of this policy is to education, prevention, rehabilitation, and recovery. An alcohol-free and drug-free campus will promote the safety and health of students, employees, and the public.

All employees and students are clearly and expressly prohibited from the possession, being under the influence, or consumption of alcohol, illegal drugs, or controlled substances on campus, at any school-sponsored event, or while acting within the scope of employment.

The complete Code of Conduct may be found on the StudentLife & Leadership web page and is also available in the Office of Student Life & Leadership, SU-201.

FERPA and Privacy Rights of Students

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

(1) The right to inspect and review the student's education records within 15 working days of the day the College receives a request for access.

Under Section 76230 of the Education Code, current and formerly-enrolled students have an absolute right of access to their own records. One exception is that under Section 76231 of the Education Code, students may waive their right of access to confidential reference letters.

A student has access to review his/her own record by submitting a request directly to the Records Office. Palomar College will provide the opportunity to inspect and review the student's record within 15 working days. Students may give permission to receive a personal transcript or have the transcript sent to another individual or institution. Parents of minor and non-minor students do not have access, except when written permission is received from the student.

> (2) The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA.

Students may file written requests with the Admissions Office to correct or remove information recorded in their student records as described in the Administrative Procedure (AP 5045). Within 30 days of receipt of the request, the Admissions Office shall meet with the student and the employee who recorded the information in question, if any, if the employee is presently employed by the District. The Admissions Office shall then sustain or deny the allegations.

If the Admissions Office sustains any or all of the allegations, the subject information shall be corrected, removed, or destroyed as applicable. If the Admissions Office denies any or all of the allegations and refuses to order the correction or removal of the information, students, within 30 days of the refusal, may appeal the decision in writing to the Academic Review Committee for academic issues, the Director of Financial Aid for student financial aid record issues, or the Director of Student Life & Leadership for disciplinary record issues.

A final appeal may be made to the Governing Board. The Governing Board shall, in closed session with the student and the employee who recorded the information in question, determine whether to sustain or deny the allegations. If the Governing Board sustains any or all of the allegations, it shall order the Superintendent/President or his/her designee, to immediately correct or remove and destroy the information. The decision of the Governing Board shall be final.

If the final decision is unfavorable to the student, the student shall have the right to submit a written statement of his/her objections to the information. This statement shall become a part of the student's record until the information objected to is corrected or removed.

Whenever there is included in any student record information concerning any disciplinary action, the student shall be allowed to include in such record a written statement or response concerning the disciplinary action.

Whenever there is included in any student record information concerning any disciplinary action in connection with any alleged sexual assault or physical abuse, or threat of sexual assault, or any conduct that threatens the health and safety of the alleged victim, the alleged victim of that sexual assault or physical abuse shall be informed within three days of the results of the disciplinary action and the results of any appeal. The alleged victim shall keep the results of that disciplinary action and appeal confidential.

> (3) The right to provide written consent before the College discloses personally identifiable information from the student's education records except to the extent that FERPA authorizes disclosure without consent.

No instructor, official, employee, or member of the Governing Board shall authorize access to student records to any person except under the following circumstances:

Student records shall be released pursuant to a student's written consent.

"Directory information" may be released in accordance with the definitions in BP 5040 titled Student Records and Directory Information. Directory information is maintained which includes name and dates of attendance. Student degrees and awards may be publicized to recognize scholastic and athletic achievements in the school newspaper, or to the news media. Lists may be provided to other Palomar College departments or to colleges and universities for the expressed purpose of providing educational opportunities and financial assistance to students (names and addresses only).

Student records shall be released pursuant to a judicial order or a lawfully issued subpoena. Each student whose record is requested under a subpoena is notified in advance of compliance and will be offered an opportunity to introduce a motion to quash.

Student records shall be released pursuant to a federal judicial order that has been issued regarding an investigation or prosecution of an offense concerning an investigation or prosecution of terrorism.

The Federal Solomon Act requires colleges to release full directory information (including address) to U.S. Armed Forces.

Student records may be released to officials and employees of the District only when they have a legitimate educational interest to inspect the record.

> (4) The right to file a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:
>
> Family Policy Compliance Office
> U.S. Department of Education
> 400 Maryland Avenue, SW
> Washington, DC 20202-5901

As provided for in the Act, a student's personal information can not be released to any other person without the written consent of the student. A photo identification will be required to access information. Official student records are kept in the Office of Admissions and Records. The Director, Enrollment Services has been designated "Record Officer," as required by the Act.

Under Section 49061 of California Education Code, parents of community college students do not have a right of access to their children's student records, regardless of whether the student is under the age of 18. Also, under federal law (Section 1232g of Title 20 of the United States Code), there is a general right of parental access to student records for grades K-12, but not for college students, regardless of age.

Parking and Traffic Regulations

Parking Permits

A permit from the College is required for all vehicles on District property 24 hours a day, seven days a week. Palomar College has partnered with the Phoenix Group to offer students enhanced customer service with a 24-hour digital platform to purchase permits online. The system allows for up to 5 vehicles to be "registered" to one student. The license plate number will act as the parking permit eliminating the need for a physical permit to be displayed in the vehicle. Students will no longer need to move a permit from one vehicle to another. However, students are only allowed to have one vehicle registered to them parked on campus at any time.

Permits may purchased online with a credit card via MyPalomar account at www.palomar.edu up to one week prior to the beginning of the semester. Once payment has been received you will be able to park your vehicle in any student lot. Online purchase of permits will continue after the semester begins. Semester permits are only valid from the date of purchase through the expiration date on the digital permits. Refunds for parking permits are granted during the first two weeks of each semester by contacting Phoenix Group clientrelations@phxgis.com , and thereafter in cases of unusual circumstances which can be confirmed through appropriate documentation.

CCPG-eligible students may purchase a parking permit at a reduced rate. *Only one discounted permit is allowed per semester. If a regular permit is purchased and the student becomes CCPG eligible at a later date, there will be no refund issued.

Students should purchase a parking permit after enrolling for the current semester.

To accommodate daily and hourly parking, Park Mobile will offer a mobile app to complete transactions and add "time" to hourly permits.

ParkMobile is a new feature to Palomar College digital parking system. ParkMobile will accommodate daily and hourly parking on all of Palomar College campuses. This will be the only system for daily and hourly parking at the Rancho Bernardo and Fallbrook Centers. Users will be purchasing daily and hourly parking through the ParkMobile app. Once the app is open, the user will need insert a Zone Number, please visit www.palomar.edu/police/parking-permits-student/ for zone numbers. The Zone Number will identify which campus the user will be parking. Zone Number signage will be on displayed throughout the lots of each campus. ParkMobile Zone Numbers have been generated for each of the Palomar College campuses. For visitor ParkMobile Zone numbers please visit: www.palomar.edu/police/visitor-parking/

Citations

The Police Department will issue citations to cars that do not have the appropriate parking permits if the cars are parked in spaces designated for handicapped, disabled students, Wellness Center, staff or visitors—this applies to all College parking lots at all times.

Vehicles receiving Palomar College citations have the same legal status as parking citations issued by any other law enforcement agency in California. C.V.C. (California Vehicle Code) and parking permit violations are enforced 24 hours a day/7 days a week. Citations may be satisfied by paying the fine (bail) within 21 days at the San Marcos campus Cashier's Office or the enrollment counter at the Escondido Education Center. Bail will also be accepted by check or money order via U.S. mail (the citation must accompany the bail deposit). Credit card payments may also be made at pticket.com/Palomar once the citation has been forwarded to the processing center. After 21 calendar days, unpaid citations become delinquent and a late fee equal to the amount of the fine may be assessed. All registered owners are responsible for the citations issued to their vehicle.

Palomar College Police Officers are not authorized to dismiss citations. A formal "Appeals Process" is in place. If you wish to appeal a citation, the forms are available on line at the Police/Parking web page at www.palomar.edu or at the Police Department. The violator shall request the appeal within 21 calendar days of the date of issuance.

Administrative Dismissal of one violation per calendar year may be granted for a "No Permit" violation. You must show proof of purchase prior to issuance (date and time) of the citation. This request will be reviewed by Police Department staff and may be granted at that time. Administrative Dismissals apply equally to all students, faculty and staff members of the Palomar Community College District, and it applies to permit violations only.

For further information regarding citations or regulations, contact the College Police Department at 760-744-1150, ext. 2289 or view the department web page at www.palomar.edu/police.

Police Department

The Palomar Community College District Police Department was established by the Governing Board of the District effective August 28, 1998. The Palomar Community College District Police Department is a fully accredited and California POST certified police agency. The Police Department employs trained police officers whose authority is the same as all sworn peace officers in California. The Police Department will exercise the power to issue official citations for violations of the law, and in situations requiring it, may arrest violators, taking them into custody and booking them into San Diego County Jail located in Vista. Students and staff are advised to give all members of the Police Department their full cooperation and respect as they carry out their important duties to protect students, faculty and staff while seeking to provide a safe and secure environment on and near District property.

Weapons on Campus

Firearms or other weapons shall be prohibited on any District property or any facility used for District purposes except for activities conducted under the direction of District officials or as authorized by an official law enforcement agency. (BP 3530)

Firearms, knives with blades longer than 2 ½", explosives, or other dangerous objects, including but not limited to any facsimile firearm, knife, or explosive, are prohibited on all District property or any facility used for District purposes.

The Clery Act: Right to Know

The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, or Clery Act requires higher education institutions to give timely warnings of crimes that represent a threat to the safety of students or employees, and to make public their campus security policies. It also requires that crime data be collected, reported and disseminated to the campus community and is also submitted to the Department of Education. The act is intended to provide students and their families, as higher education consumers, with accurate, complete and timely information about safety on campus so that they can make informed decisions by providing:

1. Policy Disclosure
2. Records Collection and Retention
3. Information Dissemination

Hard copies of the Clery Act are available at the Police Department offices located on the San Marcos campus and the Escondido Education Center., and are also available on the Police Department website at www.palomar.edu/police. The Clery Act Report is available to all prospective students and employees upon request. For further information on the Clery Act, please contact the Records Division of the Campus Police Department at 760-744-1150, ext. 3977.

Title IX and Violence Against Women Act (VAWA)

Title IX requires the college to designate a Title IX Coordinator to monitor and oversee Title IX compliance. The Coordinator is available to explain and discuss your right to file a criminal report (for example in cases of sexual violence); the College's reporting process, including the investigation process; how confidentiality is handled; available resources, both on- and off-campus; and other related matters. **If you are in the midst of an emergency please call the Police Department immediately at 760-891-7273.**

VAWA includes the following violations

Sexual Assault: Includes, but is not limited to, rape, forced sodomy, forced oral copulation, rape by a foreign object, sexual battery, or threat of sexual assault.

Dating Violence: Includes violence committed by a person who is, or has been, in a social relationship of a romantic or intimate nature with the victim. The existence of a romantic or intimate relationship will be determined based on the length of the relationship, type of relationship, and frequency of interaction between the persons involved in the relationship.

Domestic Violence: Includes felony or misdemeanor crimes of violence committed by:

- a current of former spouse of the victim;
- a person with whom the victim shares a child in common;
- a person who is cohabitating with, or has cohabitated, with the victim as a spouse;
- a person similarly situated to a spouse of the victim under California law; or
- any other person against an adult or youth victim who is protected from that person's acts under California law.

Stalking: Engaging in a course of conduct directed at a specific person that would cause a reasonable person to fear for his or her safety, or the safety of others, or to suffer emotional distress.

The following process is to ensure victims of domestic violence, dating violence, sexual assault, or stalking receive treatment and information.

Any survivor of domestic violence, dating violence, sexual assault, or stalking shall be provided with information regarding options and assistance available to them. Information shall be available from the Palomar College Police Department, Human Resource Services, Student LIfe & Leadership, Health Services, and Counseling Services offices. Who shall maintain the identity and other information about alleged sexual assault victims as confidential unless and until the Palomar College Police Department is authorized to release such information.

These areas shall provide all survivors of these crimes with the following, upon request.

- A copy of the District's policy and procedure regarding sexual assault

Services include:

- Facilitate transportation to a hospital, if necessary
- Survivor Advocate and referrals to community resources.
- Notification to appropriate authorities, if desired
- A list of other available campus resources or appropriate off-campus resources.

A description of available services and the departments on campus available to provide or arrange those services if requested.

- Palomar College Police Department
- Health Services
- Office of Student LIfe & Leadership
- Counseling Department and Survivor Advocates
- Human Resource Services
- Student Services Center
- Disability Resource Center

A description of each of the following procedures.

- Criminal prosecution
- Title IX reporting process
- Civil prosecution (for example lawsuit)
- District disciplinary procedures, both student and employee
- Academic Adjustments
- Tutoring, if necessary

Palomar College Title IX Coordinator:
Assistant Superintendent/Vice President of Human Resource Services, Room A-1, 760-744-1150, ext 2608

Palomar College Police Department:
1140 W Mission Rd, San Marcos, Main Entrance, 760-891-7273 or 760-744-1150, ext 2289

Student Life & Leadership:
1140 W Mission Rd, San Marcos, Room SU-201, 760-744-1150, ext 2594

Health Services:
San Marcos Campus: 1140 W Mission Rd, San Marcos, HC Building, 760-744-1150, ext 2380
Escondido Education Center: 1951 E Valley Pkwy, Escondido, 200 Wing, 760-744-1150, ext 8105
Rancho Bernardo Education Center: 11111 Rancho Bernardo Rd, San Diego, SEC-142, ext 6676

Counseling Services:
San Marcos Campus: 1140 W Mission Rd, San Marcos, SSC Building, 760-744-1150, ext 2184
Escondido Education Center: 1951 E Valley Pkwy, Escondido, Student Services, 760-744-1150, ext 8109
Rancho Bernardo Education Center: 11111 Rancho Bernardo Rd, San Diego, SEC-158C, ext 6697
Fallbrook Education Center: 35090 Horse Ranch Creek Rd, Fallbrook, Building A, ext 8699

Off-Campus Resources:
Women's Resource Center/Hotline, 760-757-3500, 24-hour hotline
Rape Crisis Center, 760-352-7273 (RAPE), 24-hour hotline
San Diego Domestic Violence Council, 888-385-4657 (DVLINKS), 24-hour hotlineDomestic Violence Hotline and Shelter Information, 760-633-1111, 24-hour hotline
Rape and Domestic Violence Hotline, 858-272-1767, 24-hour hotline
Battered Women's Shelter/Hotline, 619-234-3164, 24-hour hotline
Hidden Valley House, 760-747-6282, 24-hour hotline, English/Spanish
One Safe Place, 760-290-3690, Hours of Operation: Monday-Friday 8:00a.m.-8:00p.m., Saturday 8:00a.m.-12:00p.m.

Sexual Harassment Policy

It is the policy of Palomar College, in keeping with efforts to establish and maintain an environment in which the dignity and worth of all members of the College community are respected, that sexual harassment of students and employees is unacceptable conduct and will not be tolerated.

This policy applies to the unlawful harassment of any student on the basis of sex, gender, gender identity, gender expression, or sexual orientation by any employee of the District including, but not limited to, classroom conditions, grades, academic standing, scholarships, recommendations, employment opportunities, disciplinary action, or any other aspect of college life and employment within the control of the District and its employees.

This policy also applies to the unlawful sexual harassment of any employee with respect to all terms and conditions of employment with the District, including, but not limited, to hiring, placement, evaluation, promotion, disciplinary action, layoff, recall, transfer, leaves of absence, training opportunities, compensation, work assignments, and hours of work, shifts, or workload.

Employees who violate this policy may be subject to corrective measures and to disciplinary action up to and including termination of employment. Students who violate this policy may be subject to corrective measures, including discipline, up to and including expulsion.

Sexual harassment is a violation of Title VII of the Civil Rights Act of 1964, Title IX of the Education Act Amendments of 1972, the California Fair Employment and Housing Act, the California Education Code Sections 210 through 214, inclusive, and the following District Board policies and administrative procedures:

- B.P. 3430 Prohibition of Harassment
- A.P. 3430 Prohibition of Harassment
- B.P. 3433 Prohibition of Harassment Under Title IX
- A.P. 3433 Prohibition of Harassment Under Title IX

The Assistant Superintendent/Vice President, Human Resource Services is responsible for administering this policy. All questions, concerns, and complaints regarding sexual harassment should be addressed to this position. Students, employees, and members of the public who wish to report or receive support in relationship to incidents of sexual misconduct should contact the District's Title IX Office at (760) 744-1150 ext. 2608 or ext. 2608, or send an email to eeotitleix@palomar.edu.

For more information, visit www.palomar.edu/titleix.

Smoking Policy

According to BP 3570, there shall be no smoking or use of tobacco-related products on Palomar Community College District property. The District shall provide and maintain a workplace and learning environment that is smoke and tobacco-free to promote the safety and health of students, employees, and the public. Smoking, vaping, and the use of tobacco products are prohibited on all indoor and outdoor property or in vehicles owned, leased, licensed or else otherwise controlled by the Palomar Community College District. Products covered under this policy include, but are not limited to, cigarettes, cigars, pipes, hookahs, electronic smoking devices, chewing tobacco, spit tobacco, snus, snuff, and dissolvable tobacco products. The existing Student Code of Conduct is available online through the Student Life & Leadership web page and is also available in the Office of Life & Leadership, SU-201.

Student Behavior Rules and Regulations

Rules and Regulations

Student Behavior Expectations

Students at Palomar College are responsible for regulating their own conduct and for respecting the rights and privileges of others. Palomar students are expected to conduct themselves in a manner compatible with the function of the College as an educational institution, and respect and obey all civil and criminal laws. Failure to abide by the standards as set forth by Palomar College is cause for disciplinary action.

Guidelines for student conduct are set forth in the California Education Code, California Administrative Code Title 5, policies of the Board of Trustees, and all civil and criminal codes. In compliance with California Education Code Section 66300, and 66301; ACCJC Accreditation Standards I.C.8 and 10 (formerly II.A.7.b) and in keeping with the above, regulations have been established to effectively and efficiently provide for the approved educational programs, approved student activities, and community services. For further information, contact the Office of Student Life & Leadership, SU-201, or call 760-744-1150, ext. 2594.

Student Code of Conduct

Student conduct must conform to District and College rules and regulations. Student Discipline Procedures (AP 5520) provide a prompt and equitable means to address violations of the Standards of Conduct, which guarantees to the student or students involved the due process rights guaranteed to them by the California and United States Constitutions.

If a Student Code of Conduct violation occurs while a student is enrolled at Palomar College, they may be disciplined. The Standards of Conduct categories of behavior are not intended to be an exhaustive list, but are examples of causes and are good and sufficient causes for discipline, including but not limited to, verbal and/or written reprimand, removal from class, probation, short-term and long-term suspension or expulsion of a student. Other misconduct not listed may also result in discipline if good cause exists (Education Code, 76034). Whenever it has been determined that "good cause" exists for student discipline, the District shall notify the student in writing and/or district email. The student must attend a scheduled disciplinary hearing to ensure due process rights.

Hearings/Holds

Students failing to meet with the chief administrative officer or designee for a due process hearing will have an administrative disciplinary hold placed on their record until such hearing is conducted.

The Code of Conduct that details the standards is administered by the Dean of Student Life & Leadership. Also See BP 5030, titled Fees and BP 5130 titled Financial Aid, which addresses consequences of disciplinary action. The complete Student Code of Conduct is available in the Office of Student Life & Leadership, SU-201, or on the Palomar College Student Life & Leadership web page.

Standards of Student Conduct (BP 5500/AP 5500)

According to BP 5500/AP 5500 the following student conduct shall constitute good cause for discipline (academic, administrative or both) including but not limited to the removal, suspension or expulsion of a student, and applies to all students.

1. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty as defined by the Faculty Senate. Academic sanctions are the sole responsibility of the faculty member involved, further disciplinary sanctions are the purview of the Office of Student Life & Leadership.
2. Causing, attempting to cause, or threatening to cause physical injury to another person including but not limited to sexual assault or physical abuse as listed in AP 3540 Sexual Assaults on Campus.
3. Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from a District employee, which is concurred in by the Police Chief. See AP 3530 Weapons on Campus for further details.
4. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in California Health and Safety Code Sections 11053 et seq., an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.
5. Committing or attempting to commit robbery, burglary or extortion.
6. Causing or attempting to cause damage to District property or to private property on campus including but not limited to arson and vandalism.
7. Stealing or attempting to steal District property or private property on campus, or knowingly receiving stolen District property or private property on campus.
8. Willful or persistent smoking or vaping in any area where these have been prohibited by law or by regulation of the college or the District. (Refer to AP 3570 Smoking and/or Other Tobacco Use.)
9. Committing sexual harassment as defined by law or by District policies and procedures. (Refer to AP 3540 Sexual Assaults on Campus.)

10. Engaging in harassing or discriminatory behavior based on disability, gender, gender identity, gender expression, nationality, race or ethnicity, religion, sexual orientation, or any other status protected by law. See AP 3430 Prohibition of Harassment and BP 3410 Nondiscrimination for further details.
11. Engaging in intimidating conduct or bullying on District-owned or controlled property, or at District sponsored or supervised functions through words or actions, including direct physical contact; verbal assaults, such as teasing or name-calling; social isolation or manipulation; and cyber bullying. See AP 3430 Prohibition of Harassment and BP 3410 Nondiscrimination for further details.
12. Willful misconduct that results in injury or death or which results in cutting, defacing, or other injury to any real or personal property owned by the District or on campus.
13. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, college personnel.
14. Dishonesty; forgery; alteration or misuse of District documents, records or identification; or knowingly furnishing false information to the District.
15. Failure to comply with directions of staff members of the District who are acting within the scope of their employment.
16. Engaging in physical or verbal disruption of administrative procedures, public service functions, authorized curricular, co-curricular, and extra-curricular activities or preventing authorized guests from carrying out the purpose for which they are on District property.
17. Unauthorized entry upon or use of District facilities.
18. Lewd, indecent or obscene conduct or expression on District-owned or controlled property, or at District sponsored or supervised functions.
19. Engaging in expression which is obscene, libelous or slanderous, or which so incites students as to create a clear and present danger of the commission of unlawful acts on District premises, or the violation of lawful District regulations, or the substantial disruption of the orderly operation of the District.
20. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
21. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any District policy or administrative procedure.
22. Violations of District policies and regulations, including, but not limited to, regulations and policies related to smoking/vaping on campus, parking or driving on campus, district computers, telecommunications, campus vehicles, and any and all other District equipment and policies and regulations related to student organizations and student and visitor symbolic expression.

Consequences for Violations of the Student Code of Conduct.

Discipline

Students who engage in any activities described in the Standards of Student Conduct (BP 5500) are subject to the procedures outlined in AP 5520 titled Student Discipline Procedures.

This section provides due process regarding the possible consequences and/or sanctions for violations of the Palomar College Student Code of Conduct, including incidents of academic dishonesty. Disciplinary sanctions may include:

    A. VERBAL REPRIMAND
    B. WRITTEN REPRIMAND
    C. REMOVAL FROM CLASS: Academic sanctions by a District instructor for good cause from class for the day of removal, and the following class meeting. The instructor's decision is final, and may not be appealed. Instructors must notify the Office of the Director of Student Life & Leadership when this sanction is utilized so that accurate records can be maintained, and repeat offenders will be identified. (California Education Code, Section 76032)
    D. SHORT-TERM SUSPENSION
    E. LONG-TERM SUSPENSION
    F. EXPULSION
    G. APPEAL RIGHTS

The Dean of Student Life & Leadership, Department Chairpersons and Division Deans should be considered resource personnel for students and staff desiring additional information or assistance with this policy.

Loss of Financial Aid

In accordance with Education Code section 69810 a student who disrupts the peaceful conduct of the activities of the campus including but not limited to those listed above may become ineligible for state financial aid if found to be in violation of Standards of Student Conduct.

Students may contact the Office of Student Life & Leadership or Governing Board Office if they wish to obtain a copy of specific Education Code sections.

Student Complaints, Student Grievances, and Grade Disputes

Student Grade Disputes

According to Title 5, Section 55025, "The determination of the student's grade by the instructor shall be final in the absence of mistake, fraud, bad faith, or incompetency." Students who wish to dispute a final course grade under the criteria listed above must follow the Student Grade Dispute Policy and Procedures.

All grade disputes must be initiated within one semester of the grade in question being issued.

Student Complaints and Student Grievances Policy

According to AP 5530, the Palomar Community College District authorizes students to start grievance procedures when the student believes that he/she has been subject to unjust action, or the denial of rights as published in District regulations, state law, or federal laws. Copies of AP 5530, Student Rights and Complaints, may be found on the Student Life & Leadership web page and are also available in the Office of Student Life & Leadership, SU-201. Grade disputes are not a part of the Student Grievance Policy. Please see Student Grade Dispute Policy and Procedures.

Student Right To Know

As a consumer, you have a right to know about your chances of college success. "Student Right-To-Know" (SRTK) refers to a Federally mandated public disclosure of a college's Completion Rate and Transfer Rate. The intent of SRTK is to provide to the consumer, a statistic of comparable effectiveness that they can use in the determination of college choice.

SRTK is a "cohort" study; that is, a group of students who are first-time freshmen who are enrolled full-time and are degree-seeking is identified in a fall term and their outcomes are measured over a period of time. The outcomes that the two SRTK rates measure are Completion (the total number of students in the cohort who earn either a degree, a certificate, or who successfully completed a two-year-equivalent transfer-preparatory program) and Transfer (the total number of cohort non-completers who were identified as having enrolled in another institution). The tracking period of the cohorts is three (3) years, at which time the SRTK rates are calculated and made public. See http://srtk.cccco.edu/index.asp for further information, as well as for specific college data.

5 ACADEMIC REGULATIONS
and
STANDARDS

Academic Achievement

Dean's List

A student's name will be placed on the Dean's List if the student completes in one semester at Palomar College a total of twelve (12) units with a GPA of at least 3.5 with no grade of D, F, or FW. Pass/No Pass classes are not considered as a part of the 12 units.

Phi Theta Kappa

Honor Society Phi Theta Kappa is an international honor society for two-year institutions, and the sister to the four-year institution's Phi Beta Kappa. The goal of Phi Theta Kappa is to recognize individual talents, needs, and goals.

Initial membership is awarded to those students who have completed a minimum of twelve (12) semester units at Palomar College with a grade point average of 3.5 or better. To sustain membership each student must maintain standards described in the Phi Theta Kappa Omega Rho Chapter Constitution and Bylaws, available by contacting ptkpalomar@palomar.edu.

Students interested in becoming a member of Phi Theta Kappa should contact the Phi Theta Kappa Office at ptkpalomar@palomar.edu or (760) 744-1150 ext 2654.

Academic Renewal

Palomar College is committed to meeting the educational needs of all its students. Open entry encourages students of varied educational backgrounds to pursue their individual goals. Palomar's commitment to all students increases the likelihood of enrolling those who have failed in the past but who have shown their readiness to try again. To reduce the negative impact of past academic failure and to facilitate fair and equitable treatment of all students in pursuit of their academic goals, Palomar College supports Academic Renewal.

A student may petition for up to thirty (30) units of previous substandard (D, F, FW, NP/NC) course work attempted at Palomar College to be disregarded when computing the grade point average (GPA). Academic Renewal is not allowed if course work to be disregarded has previously been used to fulfill degree, certificate, or transfer certification requirements.

Current and potential financial aid students are advised that all units attempted will count in the "total units attempted" limit for financial aid eligibility. Academic renewal does not eliminate units for financial aid purposes.

Procedures

- Students are encouraged to meet with a Counselor prior to submitting the Academic Renewal form. Forms are available on the Palomar College Records Office website.
- At least 50% of the units attempted in the term(s) under consideration must be substandard, the total GPA of which is less than 2.0; and must no longer reflect the student's current level of performance and capabilities.
- One year must have passed since attempting the course work to be excluded from GPA calculation.
- The student must have successfully completed 24 semester units since the term(s) to be disregarded, either at Palomar or another regionally accredited college or university. Official transcripts must be on file in the Records Office prior to submitting the form.
- The student must have a minimum 2.0 GPA since the time of attempting the course work to be disregarded.
- The petition will be reviewed by Records Office personnel for compliance with policy and procedures. The student will be notified by email of the approval or denial of the request.

Palomar cannot guarantee other institutions will honor academic renewal. This determination will be made by the respective transfer institution.

Students who have attempted more than thirty (30) units in the terms to be disregarded may submit a Student Petition to the Academic Review Committee for consideration.

Annotation of Permanent Record

Courses will remain on the academic transcript with the Academic Renewal annotation to reflect a true and complete academic history. Academic Renewal actions are irreversible.

Attendance

Student Responsibility

The primary responsibility for class attendance and maintaining an accurate registration record rests with the student. Consequently, each student must process all adds or drops to their class schedule and is held responsible for the updating of their Official Study Schedule. To be officially recorded, adds and drops must be submitted by the appropriate deadlines (check deadline dates in the Class Schedule).

Students are expected to attend all sessions of a class in which they are enrolled. Anticipated absences should be reported to instructors in advance in order to complete assigned work by due dates. All other absences should be reported to instructors immediately upon returning to class and any missed course work should be made up. If an emergency requires a long absence and the instructor cannot be reached, students should contact the instructor's department/office.

Faculty Responsibility

Each faculty member is responsible for informing students in writing of the course content and grading system for each class within the first two class meetings. The instructor has the responsibility for maintaining accurate attendance records in accordance with established procedures.

Prior to the first census, instructors must drop any student identified as a no show (students who registered, but never attended class). An instructor may elect to drop a student for the following reasons: 1) excessive absences, normally defined as more than the number of times the class meets per week; 2) failure to take examinations; 3) failure to complete class assignments.

Auditing a Class

- Permission to audit a class is allowed at the discretion of the instructor, department chair, and division dean and requires all three signatures in that order.
- A student must provide an unofficial transcript or documentation that supports the rationale for auditing the course.
- An audit student shall not be permitted to change his/her enrollment in the course to receive credit.
- With the instructor, department chair, and division dean signed permissions, a student may enroll in a course for audit no earlier than the day after the last day to enroll without instructor permission, and no later than the end of the fourth week of class for semester-length classes (or prior to 30% of a short-term class).
- Credit students have priority over auditors. If a class closes after an auditor has been admitted, the auditor may be asked to leave to make room for the credit student. Instructor discretion is strongly recommended.
- The fee to audit a class is $15.00 per unit. Students enrolled in 10 or more units may audit 3 units free (may be 3 one-unit classes). The $15.00 per unit audit fee will automatically be assessed if the student drops below 10 units.

Credit for Prior Learning

Credit for Prior Learning (CPL) is college credit awarded for validated college-level skills and knowledge gained outside of a college classroom. Students' knowledge and skills might be gained through experiences such as:

- Military training
- Industry training
- State/federal government training
- Apprenticeships, internships, work-based learning, or other industry-based experiential learning
- Validated volunteer and civic activities (e.g. Peace Corps)

This CPL definition does not include knowledge and skills already assessed and awarded credit through formal education at regionally accredited in-state and out-of-state institutions.

Credit for prior learning may be earned for eligible courses approved by the District for students who satisfactorily pass an authorized assessment. Authorized assessments may include the evaluation of approved external standardized examinations, military service/training, the evaluation of industry-recognized credentials, student-created portfolios, and credit by examination. Students should meet with a CPL Counselor and/or the CPL Coordinator for specific information regarding CPL and the petition process. Details may be found on the CPL Website and Administrative Procedure 4235.

Students may demonstrate proficiency in a course eligible for Credit for Prior Learning and receive college credit through the approved alternative methods for awarding credit listed below:

- Achievement of a satisfactory score on an Advanced Placement (AP) examination
- Achievement of a satisfactory score on a high-level International Baccalaureate (IB) examination
- Achievement of a satisfactory score on the College Level Examination Program (CLEP)
- Evaluation of Military Transcripts
- Achievement of an examination administered by other agencies approved by the District
- Evaluation of industry-recognized credential documentation
- Evaluation of student-created portfolios
- Satisfactory completion of an institutional examination, known as Credit by Examination, administered by the college in lieu of completion of an active course listed in the current college catalog

Determination of Eligibility for Credit for Prior Learning

- Current students must have an education plan on file
- The course is listed in the current Palomar College Catalog
- The student is not currently enrolled in the course to be challenged

The nature and content of the Credit for Prior Learning assessment shall be determined solely by the faculty in the discipline who normally teach the course for which credit is to be granted.

Credits acquired by Credit for Prior Learning are not applicable to meeting of such unit load requirements as Selective Service deferment, Veterans, or Social Security benefits.

Credits acquired by Credit for Prior Learning shall not be counted in determining the 12 semester hours of credit in residence required for an Associate degree.

Transcription of Credit for Prior Learning: The student's academic record shall be clearly annotated to reflect that credit was earned by assessment of prior learning.

There is no fee associated with Credit by Exam, or other Credit for Prior Learning assessment methods.

Advanced Placement (AP) Examination Program

The California Community College System, the CSU System, and the UC System all award credit for Advanced Placement (AP) Exams. Palomar College grants credit toward its Associate degrees and CSU GE and IGETC certification patterns to high school students who attain scores of 3, 4, or 5 on the Advanced Placement Examinations of the College Board.

Students may earn a minimum of 3-semester units of credit for each AP exam satisfactorily passed. Access the Advanced Placement Program Guide on the Articulation website, www.palomar.edu/articulation/ap-ib-clep-and-dantes/, to identify how AP exam credit can be applied. See a counselor for specific information regarding AP exam placement and credit awarded. Students intending to transfer to a four-year institution should consult a counselor or the individual university regarding its AP credit policy.

To receive credit, students must submit an official AP transcript to the Records Office. For information on obtaining a transcript, contact the College Board. Information is available on the web at http://www.collegeboard.com.

International Baccalaureate (IB) Examination Program

Palomar College may award International Baccalaureate (IB) Examination credit toward the Associate degree, or for CSU GE or IGETC transfer certification, to high school students who attain an appropriate score on Higher Level exams. Access the IB Program Guide on the Articulation website, www.palomar.edu/articulation/ap-ib-clep-and-dantes/, to identify how IB exam credit can be applied.

See a counselor for specific information regarding IB exam placement and credit awarded. Students intending to transfer to a four-year institution should consult a counselor or the individual university regarding its IB credit policy for major course work. To receive credit, students must submit an official IB transcript to the Records Office.

College Level Examination Program (CLEP)

Palomar College grants credit for successful completion of certain CLEP examinations to students who attain satisfactory scores. Access the CLEP Program Guide on the Articulation website, www.palomar.edu/articulation/ap-ib-clep-and-dantes/, to identify how CLEP credit can be applied.

Students may earn a minimum of 3-semester units of credit for each exam satisfactorily passed. See a counselor for specific information regarding CLEP placement and credit awarded. Students intending to transfer to a four-year institution should consult a counselor or the individual university regarding its CLEP credit policy.

To receive credit, students must submit an official CLEP transcript to the Records Office. The University of California does not award units for CLEP. CLEP credits do not apply toward IGETC requirements. For information on obtaining a transcript, contact the College Board. Information is available at www.collegeboard.com.

Military Service/Joint Service Transcripts

Students interested in Credit for Prior Learning using military transcript(s) shall receive credit as recommended by the American Council on Education (ACE) Directory and approved by the department chair or faculty designee of the college under the following circumstances:

- The student shall complete the Credit for Prior Learning Petition Form.
- Official military transctipts/Joint Service Transcripts (JST) must be on file in the Records Office.
- Credit course equivalency shall be determined by the faculty of the appropriate discipline.

Industry Recognized Credentials

Students interested in Credit for Prior Learning using industry-recognized credential(s) shall receive credit as recommended by the appropriate department chair or faculty designee of the college under the following circumstances:

- The student shall complete the Credit for Prior Learning Petition Form.
- The student submits the required industry-recognized credential documents through the Credit for Prior Learning Petition Form to be reviewed by the department chair or faculty designee for assessment of prior learning

Student-Created Portfolio Assessment

Students interested in Credit for Prior Learning using a student-created portfolio shall receive credit as recommended by the appropriate department chair or faculty designee under the following circumstances:

- A department-approved portfolio assessment rubric for the course is on file.
- The student shall complete the Credit for Prior Learning assessment petition form by the deadline listed on the CPL Website.
- The student submits all portfolio documents to the department chair or faculty designee for assessment of prior learning.
- If the department chair or faculty designee determine the student-created portfolio adequately measures mastery of the course learning outcomes and content as set forth in the Course Outline of Record, the appropriate faculty shall complete the petition form process.
- Completed portfolios must remain in the college learning management system.

Credit by Examination from Within the District

Students interested in Credit for Prior Learning using credit by exam shall receive credit as recommended by the appropriate department chair or faculty designee.

- The Department Chair or faculty designee shall determine whether a student requesting Credit by Examination is sufficiently well-prepared to warrant being given this opportunity. This determination is based upon a review of previous coursework and/or experience.
- The student shall complete the Credit for Prior Learning Petition Form by the deadline listed on the CPL Website.
- The student meets with the department chair or faculty designee to receive further instructions for credit by exam.
- If the department chair or faculty designee determine the Credit by Examination assessment measure mastery of the course learning outcomes and content as set forth in the Course Outline of Record, the appropriate faculty shall complete the petition form process.
- Student will be enrolled into a Credit for Prior Learning (CPL) exam course section, which fulfills the registration requirement.
- Completed exam materials must remain on file in the college learning management system.

Enrollment Limitations

Non-Repeatable Courses

Most courses are not repeatable. Course repetition limits apply only to courses taken at Palomar College. Students who have substandard work from other institutions are allowed to attempt the course up to three times at Palomar College following the guidelines listed below.

- If a student earns a passing grade (A, B, C, or P) or an Incomplete (I) the student may not enroll in the course a second time.
- If a student earns a substandard grade (D, F, FW, or NP) or withdrawal (W) at Palomar College the student may enroll in the course a second time.
- If a student receives an EW (excused withdrawal) or MW (military withdrawal), the attempt will not count towards course repetition limits.

Repeatable Courses and Courses with Related Content

According to Title 5, Section 58161, courses designated as repeatable and courses related in content may not exceed four enrollments. This limitation applies even if a student receives a substandard grade (D, F, FW, NP/NC) or W during one or more enrollments in such a course.

State guidelines limit the number of times students may take courses with related content and similar primary educational activities. Groups of courses that fall within these categories are listed online. Students are limited to one enrollment for each satisfactory grade, with no more than four total enrollments per group.

One additional enrollment may be permitted on an appeal basis due to Extenuating Circumstances or due to Significant Lapse of Time. Appropriate supporting documentation must be submitted with the Petition to Repeat a Course.

Financial Aid Disqualification/Ineligibility

Current financial aid students will be disqualified from receiving financial aid if they fail to meet the Financial Aid Satisfactory Academic Progress Policy established by the Financial Aid, Veterans, and Scholarship Services Office in compliance with federal regulations.

Students are advised that they may submit a Satisfactory Academic Progress (SAP) appeal to the Financial Aid, Veterans, and Scholarship Services Office. Appeals are evaluated on a case-by-case basis. There is no guarantee that an appeal will result in financial aid being reinstated. If the appeal is approved, the student will be placed on probation status for the period approved. If a student wishes to contest a decision made by the Financial Aid Office, they may appeal one more time to the Director of Financial Aid. The determination of the Director of Financial Aid is final.

More detailed information on the Financial Aid Satisfactory Academic Progress Policy is also available on our web page, https://www.palomar.edu/fa/satisfactory-academic-progress-sap/.

Grading and Transcripts

Grading System

Student Responsibility

Each student is responsible for their registration of classes and for attending classes. Furthermore, each student is responsible for following the rules and regulations in this catalog. The College is not liable if the student fails to read and understand the rules.

Grades are assigned by instructors based on class work and tests. The grades assigned are as follows:

Evaluative Grades

Symbol	Definition	Grade Point Value
A	Excellent	4
B	Good	3

Symbol	Definition	Grade Point Value
C	Satisfactory	2
D	Less than satisfactory	1
F	*Failing	0
FW	**Failing for unofficial withdrawal	0
P	Passing (At least satisfactory - A, B, C grades. Units awarded are not counted in GPA)	
NP	No Pass (Less than satisfactory, or failing - D or F grades. Units not counted in GPA.)	

*F (Failing) Awarded to students who complete the course but fail to achieve the course objectives.
**FW (Failing for unofficial withdrawal) Awarded to students who failed to withdraw from the course and who failed to participate in course activities through the end of the course.

Non-evaluative Grades - Symbol Definition

I - Incomplete: Incomplete academic work for unforeseeable, emergency and justifiable reasons at the end of the term.

The condition for the removal of the 'I' is stated on the Record of Incomplete ('I') Grade form. The 'I' is not used in calculating units attempted or for grade points. A final grade shall be assigned when the stipulated work has been completed and evaluated, or when the time limit for completing the work has expired.

The 'I' must be made up no later than one year following the end of the term in which it was assigned.

IP - In Progress: The IP is used only in those courses which extend beyond the normal end of an academic term. It indicates that work is "in progress," and the grade will be assigned when the work is completed.

The IP symbol remains on the student record in order to satisfy enrollment documentation. If a student receives an IP in an open-entry, open-exit course and does not re-enroll in the course, or fails to complete the course in the subsequent term, an evaluative grade must be assigned.

RD - Report Delayed: The RD symbol may be assigned only by the Records Office. It is to be used when there is a delay in reporting the grade of a student due to circumstances beyond the control of either the student or the Records Office. It is a temporary notation which will be replaced by a permanent symbol as soon as possible. An RD is not used in calculating the grade point average.

SP - Satisfactory Progress: The SP grading symbol is used for Noncredit courses only.

W - Withdrawal: The W will not be used in calculating grade point averages, but excessive W's will be used as factors in progress probation, dismissal, and re-enrollment. Students may not re-enroll in a course in which three W symbols have been recorded on their transcript. Withdrawals during the "no notation" period (see below) will not appear on a transcript.

Full Semester Courses:

- No notation (W or any other grade) is made on the student record for withdrawals during the first two weeks of a course.
- Withdrawal between the second and eighth weeks is at the student's discretion, and will result in a W grade recorded on the student's permanent record.
- Withdrawal after the eighth week is not permitted. An evaluative (A, B, C, D, F, FW, NP) or Incomplete (I) grade will be assigned. Students who have verifiable extenuating circumstances may petition to withdraw.

Short Term (less than 16 weeks) Courses:

- No notation (W or any other grade) is made on the student record for withdrawals during the first 20% of the course.
- Withdrawal between 20% and 50% of a course is at the student's discretion, and will result in a W grade recorded on the student's permanent record.
- Withdrawal after 50% of a course will result in an FW grade. At the end of the class, the instructor will assign an evaluative (A, B, C, D, F, FW, NP) or Incomplete (I) grade. Students who have extenuating circumstances may petition to withdraw.

EW - Excused Withdrawal: A student is permitted to petition for an Excused Withdrawal (EW) for course(s) due to specific events beyond the control of the student affecting their ability to complete a course(s). Excused Withdrawal will not count in progress probation and dismissal calculations and will not be counted toward the permitted number of withdrawals or counted as an enrollment attempt. Petitions for an Excused Withdrawal are available online or in the Records Office.

MW - Military Withdrawal: Members of an active or reserve military service who receive orders compelling a withdrawal from courses will be permitted withdrawal at any time during the semester. Upon verification of such orders, the grade symbol MW will be assigned after the "no notation" period. The MW will not be counted in progress probation or dismissal calculations and will not have any adverse effect on the student academic record or enrollment status. Upon petition, the student will also receive a refund of the entire enrollment fee. Please contact the Records Office, records@palomar.edu or 760-744-1150 ext 2169 for assistance.

Conditions for Petition for Excused Withdraw (EW)

Students who have verifiable extenuating circumstances may petition for an excused withdraw from a class after the eighth week of a full semester course, or 50% of a short-term course. The student may submit the petition to the Records Office for authorization to receive an excused withdrawal (EW) in the following manner:

- A petition must be submitted to the Records Office by the student.
- Documentation of the extenuating circumstances being cited as reasons for withdrawal, or unsuccessful course completion, may be submitted.
- The instructor of each course in question may be consulted. In the event the instructor of record cannot be contacted, or is unavailable, the department chair will act on their behalf.

Palomar College defines extenuating circumstances as serious and compelling reasons which are limited to the following:

- Illness, hospitalization, or medical reasons
- Employment
- Relocation
- Illness or death of a family member or loved one
- Incarceration

All changes or modifications to a student's record must be requested no later than three years from the semester in question.

Final Grades and Grade Changes

Final Grades

Final grades are recorded on the student's permanent record at the end of each academic term. Grades are available as soon as the instructor submits the roster. Grades are accessed online through MyPalomar.

Grade Changes

The instructor of the course shall determine the grade to be awarded to each student. The determination of the student's grade by the instructor shall be final in the absence of mistake, fraud, bad faith, or incompetence per Title 5, Section 55025. "Mistake" may include, but is not limited to, clerical errors and errors made by an instructor in calculating a student's grade. "Fraud" may include, but is not limited to, inaccurate recording or change of a grade by any person who gains access to student records without authorization.

Removal or correction of a grade shall only be done pursuant to Education Code Section 76232 or by an alternative method which will ensure that students receive a reasonable and objective review of the requested grade change. Provisions shall be made to allow another faculty member to substitute for the instructor if the student has filed a discrimination complaint, if the instructor is not available, or where the District determines that it is possible that there may have been gross misconduct by the original instructor. The Palomar College Student Grade Dispute Policy and Procedure is available on the Faculty Senate's web page and the Instructional Services web page, under Student Forms.

No grade placed in a student's academic record may be changed unless the instructor submits a Grade Change form to the Records Office stating the reason for the change as listed above. All changes or modifications to a student's record must be requested no later than three years from the semester in question. Registration records are maintained only for a three-year period.

Official Transcript and Verification of Enrollment

The transcript is a duly certified record of all work completed or attempted by the student at Palomar College. Official transcripts may be requested through MyPalomar, in person, or by mail. The first two transcripts ever issued to/for the student are furnished free of charge upon request.

Verifications of enrollment may be requested through the Records Office.

Rush requests are processed within two (2) business days upon receipt of written request for both pick-up and mail service. Refer to Section 2, Fees and Expenses, Transcript Fees, or see the Transcript web page, https://www.palomar.edu/evaluationsandrecords/transcript-order/, for more information.

High school and college transcripts which are submitted by other institutions to the Records Office become the property of Palomar College and are not forwarded to other institutions, nor released to the student. Transcripts are sent only upon the written request of the student. Seven to ten (7-10) business days are generally required for normal processing of transcripts. We cannot insure delivery of transcripts to the recipient. You will be charged for each transcript processed according to our records.

Pass/No Pass Grading

Pass/No Pass (P/NP) grading is available in the following options:

- Courses in which all students are evaluated on a pass/no pass grading basis
- Courses in which each student may elect to take the course on a pass/no pass grading basis

The decision to change to pass/no pass grading must be made by the end of the last day of class (see class schedule for specific class end date). Application forms are available online or in the Admissions Office.

The student must submit the form to the Admissions Office. A student evaluated on the pass/no pass grading basis will receive both course credit and unit credit upon satisfactory completion of the course. Units attempted for which NP is recorded shall be considered in progress probation and dismissal procedures. P/NP grades are omitted in computing a student's grade point average. Students may repeat a course in which a substandard evaluative grade was received on a pass/no pass grading basis (reference repetition to alleviate substandard course work in non-repeateable courses).

A grade of P is granted for performance that is equivalent to the letter grade of 'C' or better. A student who fails to perform satisfactorily will be assigned an NP grade. The student is held responsible for all assignments and examinations required in the course. The standards for evaluation are identical for all students in the course.

A student may reverse their enrollment from Pass/No Pass status to receive an evaluative grade, provided the reversal made by the end of the last day of class (see class schedule for specific end date). Application forms are available online or in the Admissions office.

English 100, 202, and 203 (and other ineligible classes listed in the catalog) may not be taken on a P/NP basis. Students are advised that four-year institutions may limit the number of pass units acceptable for transfer, and with few exceptions do not allow pass/no pass grading for major prep.

Probation, Dismissal, and Reinstatement

It is the intention of the Palomar Community College District to encourage matriculating students to make satisfactory academic progress toward their individual educational goals. Students taking courses for credit should do so with the intention of completing the course or courses with a passing grade. Students who do not make satisfactory progress are subject to probation or dismissal in accordance with established District procedures.

Standards for Probation

Academic and Progress Probation Levels 1 and 2 are calculated for the fall and spring semesters on the basis of the student's enrollment. Summer grades are included in overall calculations for the fall and spring semesters.

Probation 1 and 2 are posted on the student's permanent record. To remain in good standing at Palomar College, students must maintain a minimum cumulative grade point average (GPA) of 2.0 (C), and must complete more than 50% of the units in which they have enrolled.

Effective Fall 2014, loss of priority registration will occur for students placed on academic or progress probation level 2 for a second consecutive term, and will continue until the student is no longer on a probation status.

Effective Fall 2016, a student who has been on Academic or Progress probation for two consecutive terms will lose their eligibility for the California College Promise Grant, and will not regain their eligibility until the student is no longer on a probation status.

Academic Probation Level 1
Students will be placed on academic probation 1 when they have:

- Attempted at least 12 graded units; and their
- Cumulative (overall) GPA falls below 2.0

Academic Probation Level 1 Continued
Students will be continued on academic probation 1 when:

- Cumulative (overall) GPA is below 2.0, and
- Semester (term) GPA is at least 2.0

Progress Probation Level 1
Students will be placed on progress probation 1 when they have:

- Attempted at least 12 units; and their
- Cumulative (overall) units with grades of W,I, NP* or NC reaches or exceeds 50% of all units attempted

Progress Probation Level 1 Continued
Students will be continued on progress probation 1 when:

- Cumulative (overall) attempted units with W,I, NP* or NC grades continue to be 50% or more of all attempted units; and
- Semester (term) attempted units with W,I, NP* or NC grades are below 50%

Academic Probation Level 2
Students will move to academic probation 2 if:

- Cumulative (overall) GPA is below 2.0, and
- Semester (term) GPA is below 2.0

Academic Probation Level 2 Continued
Students will be continued on academic probation 2 when:

- Cumulative (overall) GPA is below 2.0, and

- Semester (term) GPA is at least 2.0

Progress Probation Level 2
Students will move to progress probation 2 if:

- Cumulative (overall) attempted units with W,I, NP* or NC grades continue to be 50% or more of all attempted units; and
- Semester (term) attempted units with W,I, NP* or NC grades are also at 50% or more of all attempted units

Progress Probation Level 2 Continued
Students will be continued on progress probation 2 when:

- Cumulative (overall) attempted units with W,I, NP* or NC grades continue to be 50% or more of all attempted units; and
- Semester (term) attempted units with W,I, NP* or NC grades are below 50%

Removal from Probation Level 2
An enrollment hold will be placed on the student's record blocking registration. Students are required to attend an online Success Workshop or make a counseling appointment to meet with a counselor to clear the hold. If a student is on progress probation level 2 for a second time, completing the online workshop will not clear the hold. Students will be required to set up an appointment with a counselor to have the hold cleared.

A student on Academic or Progress Probation 2 shall be removed from probation when the student's overall grade point average at Palomar College has improved to 2.0 or higher and their number of completed units reaches more than 50% of all attempted units.

* NP not included in Fall 2022 progress probation or progress dismissal.

Standards for Dismissal

For the purpose of dismissal, semesters shall be considered consecutive on the basis of the student's enrollment, so long as a break in the student's enrollment does not exceed one full primary term.

A student on dismissal status is ineligible to participate in any Palomar College classes or student activities until the requirements for dismissal have been fulfilled. Dismissal is posted on the student's permanent record. Please see California Education Title 5 code 55033.

Academic Dismissal
A student who is on academic probation 2 shall be subject to dismissal if the student earned a cumulative and semester GPA below 2.0 in all units attempted in each of three consecutive semesters.

Students who begin the spring semester on academic probation 2 will be dismissed if they fail to achieve a minimum semester GPA of 2.0 at the end of the spring term.

Progress Dismissal
A student who is on progress probation 2 shall be subject to dismissal if the student's cumulative and semester percentage of all enrolled units with W, I, NP* or NC grades reaches or exceeds 50% percent in each of three consecutive semesters.

Students who begin the spring semester on progress probation 2 will be dismissed if they fail to complete more than 50% or their spring semester course work with grades other than W, I, NP* or NC at the end of the spring term.

* NP not included in Fall 2022 progress probation or progress dismissal.

Notification of Probation and Dismissal
The Admissions and Records Office shall make every reasonable effort to notify a student of their academic standing within 30 days of the grade submission due date. A student removed from probation level 2 or reinstated after dismissal shall be notified as soon as possible.

Reinstatement after Dismissal
Students who have been dismissed for academic and/or progress reasons are eligible to return after one semester by petition to the Academic Review Committee. Students reinstated by petition return to the college on Probation Level 2, and must maintain a term GPA of 2.0, and/or successfully complete more than 50% of their term course work, to avoid returning to dismissal status. For further information, please stop by the Evaluations Office in the Student Services Center. Students who are dismissed lose their continuing student status and must re-apply to the College.

Students who believe their dismissal should be put aside after being notified must immediately petition the Academic Review Committee. Petitions may be approved due to extenuating circumstances such as verified cases of accident, illness, or other circumstance beyond the control of the student.

Repetition of Courses

Policies on Repetition of Courses

A student is not obligated to repeat a course in which a substandard grade (D, F, FW, NP/NC) has been received unless it is a course required for graduation or transfer, or is a prerequisite to another required course.

A student, when appropriate, will be blocked from enrolling in a repeated course or administratively dropped from a repeated course.

For student financial aid eligibility, all course enrollments will be counted as total units attempted.

Nothing can conflict with Education Code section 76224 pertaining to the finality of grades assigned by instructors, or with Title 5 or District procedures pertaining to the retention and destruction of student records.

Course repetition occurs when a student re-enrolls in a course for which they have previously enrolled (as defined above).

Enrollment and Course Repetition

Enrollment is defined as occurring when a student receives an evaluative (A, B, C, D, F, FW, P/CR, NP/NC) or non-evaluative (I, IP, RD, W, EW, MW) symbol in a course.

"W" symbols are included in the maximum allowable enrollments. A student may not receive more than three W's in a course. No more than three enrollments are allowed in any combination, excluding EW and MW, of evaluative (A, B, C, D, F, FW, P/CR, NP/NC) and non-evaluative (I, IP, RD, W) symbols. An approved petition for a fourth enrollment must result in an evaluative grade.

Palomar College will allow course repetition to occur only under the following circumstances.

Repeatable Courses

Title 5 designates only the following types of courses as repeatable:

1. Courses for which repetition is necessary to meet the major requirements of CSU or UC for completion of a bachelor's degree;
2. Intercollegiate athletics; and
3. Intercollegiate academic or vocational competition.

Eligible courses may be repeated up to three times for a total of four enrollments. This limitation applies even if a student receives a substandard grade (D, F, FW, NP/NC) or withdrawal (W) during one or more of the enrollments in such a course.

When a course is repeated under this provision, the grade received each time shall be included for purposes of calculating the student's grade point average.

If a student repeats a repeatable course and a substandard grade has been recorded, the previous (no more than two) grade and credit will be disregarded provided that no additional repetitions are permitted beyond the enrollment limit of four.

Reasons for Repetition

Repetition to Alleviate Substandard Course Work in Non-Repeatable Courses

Most courses are not repeatable. Course repetition limits apply only to courses taken at Palomar College. Students who have substandard work from other institutions are allowed to attempt the course up to three times at Palomar College following the guidelines listed below. Only two substandard grades are eligible to be adjusted across the attempts from all colleges.

First Attempt:

- If a student earns a passing grade (A, B, C, or P) or an Incomplete (I) the student may not enroll in the course a second time.
- If a student earns a substandard grade (D, F, FW, or NP) or withdrawal (W) the student may enroll in the course a second time.

Second Attempt:

- If a student earns a passing grade (A, B, C, or P) or an Incomplete (I) on the second attempt, the student may not enroll in the course again. Grade adjustments are automated, however, all grades will continue to appear on the transcript.
- If a student earns a substandard grade (D, F, FW, or NP) or withdrawal (W) the student may enroll in the course a third time.

Third Attempt:

- If a student earns a passing grade (A, B, C, or P) or an Incomplete (I) on the third attempt, the student may not enroll in the course again. Grade adjustments are automated, however, all grades will continue to appear on the transcript.
- If a student earns a substandard grade (D, F, FW, or NP) or withdrawal (W) on the third attempt the student may not enroll in the course a fourth time at Palomar College. Individual exceptions may be made only with documentation of extenuating circumstances.

Upon grade adjustment processing only the most recent evaluative grade will be computed in the grade point average and annotated on the student's permanent academic record.

If a student repeats a repeatable course and a substandard grade has been recorded, the previous (no more than two) grade and credit will be disregarded provided that no additional repetitions are permitted beyond the enrollment limit of four. No more than two substandard grades may be alleviated pursuant to this section.

Repetition Due to Significant Lapse of Time

A student may submit a Petition to Repeat a Course form to the Evaluations Office to repeat a course in which a satisfactory grade was received and there has been a significant lapse of time of no less than three years since the grade was obtained.

The following circumstances apply to this provision:

1. A recency prerequisite exists for a course or program; or
2. Another institution of higher education to which the student seeks to transfer has established a recency requirement which the student will not be able to satisfy without repeating the course in question.

If a student has exhausted the number of permitted repeats in an active participatory course or an experience course that is related in content, one additional repeat may be approved by petition, with appropriate supporting documentation, due to significant lapse of time.

Upon repetition, the previous grade and credit will be disregarded in computing the grade point average and annotated on the student's permanent academic record.

Repetition Due to Extenuating Circumstances

A student may submit a Petition to Repeat a Course form to the Evaluations Office to repeat a course (excluding repeatable courses) based on a finding that the student's previous grade (whether substandard or passing) was, at least in part, the result of extenuating circumstances.

Extenuating circumstances are verified cases of accidents, illness, or other circumstances beyond the control of the student. Appropriate supporting documentation must be submitted with the petition.

Upon repetition, the previous grade and credit will be disregarded in computing the grade point average and annotated on the student's permanent academic record.

Repetition of Cooperative Work Experience Education

A student may repeat a Cooperative Work Experience course in a given field any number of times provided the student does not exceed 16 units in any combination of general or occupational work experience. A maximum of fourteen semester credit hours may be earned during one enrollment period.

When a cooperative work experience course is repeated, the grade received each time shall be included for purposes of calculating the student's grade point average.

Repetition of Disability Resource (DR) or Adaptive Kinesiology Classes for Students with Disabilities

A student may repeat a class for students with disabilities any number of times based on an individualized determination that such repetition is required as a disability-related accommodation for that particular student for one of the following reasons. Please contact the Disability Resource Center to submit a petition to repeat a course.

1. The student's continuing success in other classes is dependent on additional repetitions of a specific DR or Adaptive Kinesiology class;
2. The student needs additional repetitions of a specific DR or Adaptive Kinesiology class as preparation for enrollment into other classes; or
3. The student has an educational contract that involves a goal other than completion of the DR or Adaptive Kinesiology class in question and repetition of the course will further achievement of that goal.

Repetition to Meet a Legally Mandated Training Requirement

A student may repeat a course determined to be legally mandated by statute or regulation as a condition of paid or volunteer employment. Such courses may be repeated for credit any number of times.

Prior to enrolling, the student must submit a Petition to Repeat a Course for each repeat to the Evaluations Office with appropriate certification or documentation of the mandated training.

When a course is repeated to meet a legally mandated training requirement, the grade received each time shall be included for purposes of calculating the student's grade point average.

Repetition Due to a Significant Change in Industry or Licensure Standards

A student may repeat a course as a result of a significant change in industry or licensure standards such that repetition of the course is necessary for employment or licensure. Such courses may be repeated for credit any number of times.

Prior to enrolling, the student must submit a Petition to Repeat a Course for each repeat to the Evaluations Office with appropriate certification or documentation that there has been a significant change in industry or licensure standards requiring course repetition.

Repetition of Courses – VA Education Benefits

Repetition Due to Significant Lapse of Time (course taken at another institution)

A student who is certifying VA Education benefits at Palomar College may petition to repeat a course in which a satisfactory grade was received at another institution and there has been a significant lapse of time of no less than three years since the grade was obtained.

The following circumstances apply to this provision before the repeated course can be certified for VA purposes:

1. An official transcript from the institution must be on file with the Records Office.
2. The course to be repeated is a prerequisite to a required course or a required course listed on the student's educational objective on file in the Veterans Resource Center.
3. A student attempting to repeat a Math or English course must have current assessment scores from Palomar College, placing the student into the applicable level, on file with the Veterans Resource Center.
4. The student has met with an academic counselor who has advised repetition of the course by placing it on a current educational plan. The education plan must then be submitted to the Veterans Resource Center.

Upon repetition, the previous grade and credit will be disregarded in computing the grade point average and annotated on the student's permanent academic record.

If the course to be repeated was originally taken at Palomar College, the district's policy for Repetition Due to Significant Lapse of Time will apply.

Student Record Annotation

Courses will remain on the academic transcript with the repeat annotation to reflect a true and complete academic history.

A course may be repeated up to two times to alleviate a substandard grade.

Course	Grade	Units	Grd Pts	Units/GPA
SOC 205	D	4.0	4.0	Excluded
SOC 205	B	4.0	8.0	Included
CHEM 100	F	4.0	0.0	Excluded
CHEM 100	D	4.0	4.0	Excluded
CHEM 100	FW	4.0	0.0	Included
CHEM 100	Not allowed to enroll again			

One additional enrollment may be granted on an appeal basis due to Extenuating Circumstances (excluding repeatable courses).

Course	Grade	Units	Grd Pts	Units/GPA
SOC 100	D	4.0	4.0	Excluded
SOC 100	C	4.0	8.0	Excluded
SOC 100	B	4.0	12.0	Included
CHEM 100	D	4.0	4.0	Excluded
CHEM 100	C	4.0	8.0	Excluded
CHEM 100	FW	4.0	0.0	Included
CHEM 100	Not allowed to enroll Again			

One additional enrollment may be granted on an appeal basis due to Significant Lapse of Time (must have received satisfactory grade).

Course	Grade	Units	Grd Pts	Units/GPA
BIOL 211	C	4.0	8.0	Excluded
BIOL 211	B	4.0	12.0	Included
BIOL 212	D	4.0	4.0	Excluded
BIOL 212	C	4.0	8.0	Excluded
BIOL 212	D	4.0	4.0	Included
BIOL 212	Not allowed to enroll again			

Courses within a related group are limited to one enrollment for each satisfactory grade, with a maximum of four total enrollments within the group.

Drawing course group: ART 102, 103, 104, 213, 197F

Course	Grade	Units	Grd Pts	Units/GPA
ART 102	W	0.0	0.0	Included
ART 102	B	3.0	9.0	Included
ART 103	A	3.0	12.0	Included
ART 104	FW	3.0	0.0	Included
ART 104	Not allowed to enroll again			
ART 213	Not allowed to enroll			
ART 197F	Not allowed to enroll			

Instrumental Ensemble course group: MUS 151, 152, 155, 157, 159, 161, 162, 172, 184, 198, 227

Course	Grade	Units	Grd Pts	Units/GPA
MUS 152	F	1.0	0.0	Excluded
MUS 152	A	1.0	4.0	Included
MUS 155	A	1.0	4.0	Included
MUS 161	D	1.0	1.0	Included
MUS 161	Not allowed to enroll again			
MUS 198	Not allowed to enroll			

Title 38 Beneficiaries (VA Education Benefits) Disqualification/Dismissal

Disqualification/Dismissal

For a veteran/dependent student using VA Education Benefits (Title 38) who falls into academic (term and cumulative GPA falls below 2.0, upon attempting 12 cumulative units or more) probation for any semester or session (including summer), the Veterans' Services Office is required to notify the Department of Veteran Affairs (DVA). If the cause for probation has not been removed at the end of three consecutive

semesters or sessions (including summer session), the student would be ineligible for benefits for one semester at Palomar College and must follow the reinstatement policy.

Reinstatement After Dismissal

Veteran/dependent students who have been academically dismissed from Palomar College and wish to pursue reinstatement for VA Education Benefits must fulfill the following requirements:

1. The student must take a full term off from using VA Education Benefits at Palomar College.
2. The student must meet with a Veterans Counselor to get an updated education plan.
3. During or after the term taken off, the student must complete a petition to be reinstated for Education Benefits at Palomar College.
4. The student must submit the petition for reinstatement and updated education plan to the Veterans' Resource Center. The Director of Veterans Services will review the petition, and approval or denial will be determined by the Director's assessment of the student's likelihood of attaining success in his/her educational objective.
5. If the petition is approved, the student will be allowed to certify VA Education Benefits after enrollment. If denied, the student has an opportunity to make an appointment with the Director for review of the decision.

Please check with the Veterans Resource Center for details.

References: 38 CFR 21.4203(d), 38 CFR 21.4277, 38 CFR 21.7154, 38 CFR 21.7653(c), 38 CFR 21.7654, and 38 CFR 21.9725

Transfer Credits from Other Sources

Palomar College is not the custodian of transcripts/test scores from other institutions. When a student has never applied and we have no record of attendance, transcripts/test scores from other institutions will be purged and the student must re-submit upon application for admission.

Credit from Other Colleges

Courses which have been developed and are recommended by the faculty of an institutionally accredited college or university and designated as appropriate for associate or baccalaureate degree credit by that institution shall be accepted by Palomar College for elective credit toward its associate and baccalaureate degrees as needed to achieve minimum number of units to earn the associate or baccalaureate degree. Appropriate campus authorities, pursuant to § 55002 Standards and Criteria for Courses and § 55062 Conditions for Awarding the Associate Degree, shall determine the extent to which such credit satisfies the requirements of a particular degree program and general education requirements. Credit not otherwise applied shall be accepted as elective credit insofar as it meets any qualifications which may be associated with elective provisions, such as course level, distribution among disciplines, or type of course.

Credit earned at a time when an institution was a candidate for accreditation may be accepted. Official transcripts must be on file with the Records Office to have transfer credit course work applied to Palomar degree, certificate, or transfer evaluations. Hand-carried official copies of transcripts are accepted provided they are received in the original school sealed envelope.

Transfer credits from institutions using the quarter system shall be evaluated as follows: each unit of work at a quarter system is equivalent to two-thirds of a semester unit (i.e., 3 quarter units equals 2 semester units).

Career Technical Education (CTE) Transitions Program

The CTE Transitions program is a technical and academic preparation program that enables high school students to prepare for a career and college at the same time. Students can even earn college credits while still in high school.

CTE Transitions is a bridge that connects learning to careers. It is designed to help students gain academic knowledge and technical skills, whereby they can earn college credit for their secondary (high school) course work through the completion of articulated courses. Programs are intended to lead to an associate degree or a certificate in a specific career field, and ultimately, to high wage, high skill employment or advanced postsecondary (college) training.

Through the Credit by Examination process, high school students may receive credit at the college level for some articulated courses. Palomar College awards college credit to high school students who earn an A or B in career-related, articulated high school course work and who pass an exam approved and/or conducted by Palomar College faculty. An articulated course is one in which the high school teacher and Palomar College faculty have formally agreed that the high school's course outline, syllabus, textbook, and final exam are comparable to those in a course of the same major at Palomar College.

For more information about the CTE Transitions high school course articulation program, contact the Palomar College CTE Transitions office in AA-134 or at 760-744-1150, ext. 2692 for any additional information.

Defense Activity for Non-Traditional Education Support (DANTES) Examination Program

Palomar College may award credit for successful completion of certain DSST (DANTES Subject Standardized Test) exams to students who attain satisfactory scores. Access the DANTES Program Guide on the Articulation website, to identify how DANTES credit can be applied to the Associate degree. See a counselor for specific information regarding DSST placement and credit awarded.

The college is guided by the credit recommendations of the American Council on Education (ACE). To receive credit, students must submit an official DANTES transcript to the Records Office. For information on obtaining a transcript, visit the DANTES website. Information may be found at http://www.dantes.doded.mil under Examination Programs.

International Course Work

Students who have satisfactorily completed international coursework from a nation's appropriately accredited university may be able to apply those course credits toward an Associate degree at Palomar College. Course work must first be evaluated by an approved NACES credentials evaluation agency and then reviewed by Palomar's Evaluations Office. Some course work may also require approval by Department Chairs.

To have international course work credits evaluated, students should contact one of the approved credentials evaluation agencies. A list of commonly used agencies is available in the Evaluations Office and online. Request a detailed equivalency report that indicates - for each course - whether it is an upper- or lower-division course, its U.S. semester equivalency, and the grade the student earned. The Evaluations Office will determine how course work will be applied to requirements. Palomar College will not determine course transferability to other colleges and universities.

Please note foreign course work will NOT satisfy general education requirements for English composition, oral communication courses or transfer certification.

Religious Course Work

Palomar College will not accept any course, even from a regionally accredited institution, that promotes a specific religious doctrine. Courses with a broad philosophical perspective will be accepted.

Examples of courses which may be appropriate for general education include The Bible, The New Testament, The Koran, and The Torah, as long as the treatment of these topics is academic and stresses these books as literary works in an historic or philosophic way.

We will not accept courses that are taught from a specific doctrinal perspective or which attempt to proselytize. Examples of courses which are not appropriate for general education include Preparing for a Mission, The Baptist Ministry, and Living as a Christian. Courses which by title may not appear as faith-based may still be unacceptable if the description includes dogma.

U.S. Air Force or Space Force ROTC Program

The Air Force Reserve Officer Training Corps (ROTC) is a three or four year program designed to equip students with leadership skills and commission officers for tomorrow's Air Force and Space Force. Required course work includes lectures, a leadership laboratory practical component, panel discussions, dialogues, problem solving, and physical training.

Palomar College does not have an ROTC program; however, under the provisions of a special agreement, students may participate in the ROTC program at SDSU. Students may enroll and attend ROTC classes at SDSU by contacting the SDSU Air Force ROTC Department at (619) 594-5550. Scholarships may be available for qualified cadets. The credits in these classes may be transferred as electives to meet degree requirements. Upon successful completion of the program and all requirements of a bachelor's degree, cadets are commissioned as Second Lieutenants and serve a minimum of four years of active duty in the Air Force or Space Force.

6 **GRADUATION INFORMATION**

Palomar College provides occupational as well as general education for the student who plans to complete formal education at the community college level. In addition, the College provides lower division requirements in general education and in preprofessional majors for those students who plan to transfer to upper division colleges and universities.

To assist the student in educational planning, this section of the catalog describes the graduation requirements for the Associate Degree, the Certificate of Achievement, the Certificate of Proficiency, and the Noncredit Certificate of Completion.

Students have three general education options from which to choose for the Associate in Arts or Associate in Science degree. Students are encouraged to meet with a Palomar College Counselor for assistance in selecting the general education pattern that is most appropriate for their general education goal.

- Option A: Complete the Palomar Community College District General Education and District Requirements.
- Option B: Complete the California General Education Transfer Curriculum (Cal-GETC).
- Option C: Students who have earned a bachelor's degree or higher from an institutionally accredited college or university shall satisfy the Palomar College associate degree general education and District requirements.

Additional Degree Information

Additional Associate Degrees

Additional associate degrees may be earned in other majors with the exception of General Studies and University Studies. Students may earn only one General Studies and one University Studies degree.

1. Students who have received an associate degree, and maintained continuous enrollment, may pursue subsequent degrees by fulfilling the major or area of emphasis requirements.
2. Students who have received an associate degree, but did not maintain continuous enrollment, may pursue subsequent degrees by fulfilling the major or area of emphasis and one general education option under the catalog of readmission.
3. Students with an associate degree from another college must pursue subsequent degrees in a different major at Palomar by fulfilling the major or area of emphasis and one general education option under the catalog of readmission.

Catalog Rights and Continuous Enrollment Criteria

Catalog rights are established when a student first takes classes at Palomar College (Spring, Summer, or Fall) and they are maintained throughout continuous enrollment at the college. For Associate Degree for Transfer (ADT) and CSUGE transfer certification purposes catalog rights can only be established after high school graduation. College coursework taken prior to high school graduation does not establish CSUGE catalog rights.

Eligibility for graduation is determined by catalog rights and continuous enrollment. Students who do not wish to use the catalog in effect at the time they began continuous enrollment should indicate which catalog they wish to use; otherwise, the catalog under which they began continuous enrollment, or the current catalog, will be used.

Continuous enrollment is defined as attendance in one semester or two quarters (Spring, Summer or Fall) within a calendar year (January through December) in the CSU, UC, or California Community Colleges system following initial enrollment at Palomar. A student must have received a letter grade (including "W, EW, MW") in the semesters of attendance to maintain continuous enrollment. If a student does not maintain continuous enrollment, the evaluation will be based on the requirements in effect at the time of return to Palomar College, or the date the degree is awarded.

Course Work Limitation

Some departments may require that course work for career/technical majors or areas of emphasis be completed within a specified period of time to the granting of the associate degree.

Notice of Intent to Graduate

When students are registered in their final semester, they should submit a Petition for Graduation to the Evaluations Office by email, evaluations@palomar.edu or in person at Student Services Center, room SSC-40. Petitions are available online or the Evaluations Office. Deadlines are strictly adhered to; petitions must be submitted no later than the dates listed below.

> Spring graduation – February 28th
> Summer graduation – June 30th
> Fall graduation – September 30th

Conferring of Degrees and Certificates of Achievement

Associate in Arts degrees, Associate in Science degrees, Associate in Arts for Transfer, Associate in Science for Transfer, and Certificates of Achievement will be conferred formally at the Commencement Ceremony held in May at the end of each spring semester. However, students will receive their degree or certificate following the close of the semester in which they apply for graduation.

Associate Degrees

Palomar College currently offers an Associate in Arts (AA), an Associate in Science (AS), an Associate in Arts for Transfer (AA-T), and an Associate in Science for Transfer (AS-T) degrees. A detailed listing of degree options are in Section 8 of this catalog titled "Programs and Credit Courses." Official transcripts from all previously attended, regionally-accredited institutions must be on file with the Records Office.

The associate degree is designed to prepare students either for transfer to a four-year college or university or for immediate employment. Although the associate degree recognizes the completion of lower-division course requirements, it does not guarantee admission to a four-year college or university.

Students are strongly encouraged to meet with a Palomar College Counselor for assistance in establishing an appropriate educational plan. If students have attended prior colleges or completed any exams such as Advanced Placement (AP), International Baccalaureate (IB), College Level Examination Program (CLEP), Scholastic Aptitude Test (SAT) or American College Testing (ACT), it is strongly recommended that students provide unofficial copies of these records during their initial counseling appointment for comprehensive advising.

Official transcripts from all institutions previously or concurrently attended and test scores must be on file with the Records Office in order to apply for an associates degree.

Associate Degree Requirements

I. Minimum Units

The associate degree requires completion of a minimum of sixty (60) degree-applicable semester units. Courses numbered 1-49 do not count in the sixty (60) units toward the degree. (See the Course Numbering System and Transfer Identification listing.)

II. Grade Point Average (GPA)

Maintain a cumulative grade point average of 2.0 ('C' average) or higher for all degree-applicable course work attempted. Some programs may require a higher grade point average. Refer to the individual Programs of Study for further information. In calculating a student's degree applicable grade point average, grades earned in non-degree applicable courses, numbered 1 – 49, will not be included.

III. Residency

Complete a minimum of twelve (12) degree applicable semester units in residence at Palomar College.

IV. General Education

Students have three general education options from which to choose from for the Associate in Arts or Associate in Science degree. Students are encouraged to meet with a Palomar College Counselor for assistance in selecting the general education pattern that is most appropriate for their general education goal.

- Option A: Complete the Palomar Community College District General Education and District Requirements.
- Option B: Complete the California General Education Transfer Curriculum (Cal-GETC).
- Option C: Students who have earned a bachelor's degree or higher from an institutionally accredited college or university shall satisfy the Palomar College associate degree general education and District requirements.

*Transcript evaluations will be required to determine if non-Palomar College coursework satisfies the Ethnic Studies requirement. Students must provide an official transcript from the conferring institution.

The Associate in Arts for Transfer and Associate in Science for Transfer degrees require full completion of the California General Education Transfer Curriculum (Cal-GETC). The evaluation of transcripts is required to determine whether full completion of Cal-GETC is met.

V. Major

There are three associate degree options, University Studies, General Studies, and Specified Palomar Major.

Option 1: University Studies
An associate degree that provides completion of a general education transfer pattern including many, if not all, lower-division major preparation requirements for students transferring to either the California State University or University of California System. Based on their transfer major, students may select only one available emphasis.

Requirements

- Complete general education option B or C.

- Complete a University Studies emphasis selected from the five majors listed in the credit programs section. All courses within the major must be completed with a 'C' or better.
- Complete the required electives, if needed, to obtain a minimum of 60 degree-applicable units.

Option 2: General Studies
An associate degree in General Studies provides maximum course selection flexibility. Students planning to transfer to a four-year institution are cautioned that this curriculum may not provide for completion of the transfer major preparation requirements for transfer to a four-year institution. Students should consult with a counselor to determine the best course of action. Students may select only one available emphasis.

Requirements

- Complete general education option A, B, or C.
- Complete one General Studies Emphasis. All courses within the major must be completed with a 'C' or better.
- Complete the required electives, if needed, to obtain a minimum of 60 degree applicable units.

Option 3: Specified Palomar Major
This option provides an associate degree designed as preparation for various career and transfer pathways. Students planning to transfer to a four-year institution will need additional requirements. Students should consult with a counselor to determine the best course of action.

Requirements

- Complete general education option A, B, or C.
- Complete the pecific major requirements as outlined in the program offerings. All courses within the major must be completed with a 'C' or better.
- Complete the required electives, if needed, to obtain a minimum of 60 degree applicable units.

Contact the counseling department to request an appointment with a counselor for further information about any of the three associate degree options.

VI. District Requirements

1. **Competence in American History and Institutions/ California Government** Minimum grade of "C" is required

    Demonstrated by course completion or examination.

    Complete one Palomar course (or an equivalent) or AP/CLEP/ SAT Subject exam from each of the three US components, except where two courses are listed as fulfilling the area together. Courses listed in more than one area can meet multiple components (e.g. HIST 102 meets US-1 and US-3). Minimum exam scores are listed with each approved exam. See ASSIST.ORG for up to date approvals.

US-1: The historical development of American institutions and ideals (100 years of U.S. history).
Africana Studies 101
Africana Studies 102
American Indian Studies 101
American Indian Studies 102
Chicano Studies 101
Chicano Studies 102
History 101
History 102
History 140
History 141
POLS C1000
Religious Studies 102 [F08]
AP Exam (Score of 3): U.S. History
CLEP (Score of 50): History of the U.S. I
CLEP (Score of 50): History of the U.S. II
SAT Subject Test (Score of 550): U.S. History

US-2: The Constitution of the United States and the operation of representative democratic government.
Africana Studies 101 (F16)
American Indian Studies 101 (F16)
Chicano Studies 101 (F16)
History 101 (F16)
History 140 (F16)
Legal Studies 240 (F16)
Political Science C1000, 240 (F16)
Religious Studies 103 (F19)
AP Exam (Score of 3): U.S. Government & Politics

US-3: The process of California state and local government.
Africana Studies 102
American Indian Studies 102
Chicano Studies 102
History 102
History 141
Political Science 120 (F09)
Religious Studies 103 (F19)

Students who have completed course work outside California should consult with a counselor to ensure completion of the three required components.

2. Competence in Health and Fitness Minimum grade of "C" is required)

Demonstrated by course completion, examination, or U.S. military service.

Option I
Course Completion (Select A or B)
Courses need not be taken concurrently.

A. Health 100 and one approved fitness activity course:

- ACS 100-level Intercollegiate Sport or
- DNCE 115 (F20), 149 (F20), 151 (F20), 153 (F20), 210 (F20)
- HE 100L or
- KINE 105, 128A, 128B, 128C, 128D, 135A, 135B, 135C, 140A, 140B, 140C, 150A, 150B, 150C or
- Fire 151 or
- Completion of Police Academy

B. Equivalent lecture and fitness activity course work. Approved lecture courses (minimum of 9 units):

- HE/FCS/NUTR 165, or
- BIOL/FCS/NUTR 185, and

- PSYC 100 and
- BIOL 100 or 101 or 102 or 105 or 106, or 145 or 210 or 211

Approved fitness activity courses (minimum of 1 unit):

- ACS 100-level Intercollegiate Sport or
- DNCE 115 (F20), 149 (F20), 151 (F20), 153 (F20), 210 (F20)
- HE 100L or
- KINE 105, 128A, 128B, 128C, 128D, 135A, 135B, 135C, 140A, 140B, 140C, 150A, 150B, 150C or FIRE 151 or
- Completion of Police Academy

Option II
Competence Examination (acceptable tests and scores listed below):

Written Exam:
Achieve a minimum score of 70% (currently 154 out of 220) on the Palomar College written test covering principles of nutrition, first aid, cardio-vascular fitness, flexibility, anatomy and physiology, substance abuse, sexually transmitted diseases, and other health-related topics as listed in the Course Outline of Record. This test may be taken only one time in a 3-year period. Contact the Health and Kinesiology Department for the testing schedule.

Fitness Exam:
NOTE: Applies only to students who have successfully passed the written exam.

Participate in a 12-minute run, 20-minute swim, or 30-minute stationary bike test. Students with physical limitations may be required to obtain a physician's approval to take the test.

Jogging (12 minutes)

Age	Men	Women
Under 30	6 $^1/_2$ laps	5 $^1/_2$ laps
30-39	5 $^3/_4$ laps	4 $^3/_4$ laps
40-49	4 $^1/_4$ laps	3 laps
50 and over	3 $^3/_4$ laps	2 $^3/_4$ laps

Swimming (20 minutes)

Age	Men and Women
Under 40	$^1/_2$ mile
40 and over	$^1/_2$ mile (no time limit)

Stationary Bike Test (30 minutes)
Warm-up 5 minutes at 100 watts*, test 20 minutes at required watt output, cool down 5 minutes at 100 watts.

Age	Men	Women
Under 40	175 watts	150 watts
and over	150 watts	125 watts

Watt = energy output by cadence of pedaling (faster pedaling = increased watts)

Option III
Military Service:
United States military personnel and veterans may fulfill this

requirement and be awarded up to 4 units of credit with proof of completion of Basic/Recruit Training and 181 days of continuous active duty. Submit copy of military transcripts to the Records Office: Joint Services Transcript (JST), CCAF, DD214, or DD295.

Certificate Requirements

Certificate of Achievement (CA) Requirements

Students will be eligible to receive a Certificate of Achievement if they complete the specific course requirements as listed under the credit programs section of the catalog. Students who wish to use course work from other institutions towards the certificate or wish to pursue additional Palomar degrees should submit official transcripts to the Records Office. In addition to the course requirements, students should be aware of the following:

1. A grade of 'C' or higher must be achieved in all certificate courses except where other grade requirements are specified by law. A Department Chair/Director may waive one (1) 'D' grade with written justification.
2. Equivalent courses from other institutions may be determined by the Evaluations Office. Certificate credits or courses may be substituted or further equivalencies determined with written justification and approval of the Department Chair/Director.
3. Continuous enrollment is defined as attendance in one semester or two quarters (Spring, Summer or Fall) within a calendar year (January through December) in the CSU, UC, or California Community Colleges system following initial enrollment at Palomar. If a student does not maintain continuous enrollment, the evaluation will be based on the requirements in effect at the time of return to Palomar College, or the date the degree is awarded.
4. It is the responsibility of the student to ensure satisfactory completion of the certificate requirements. When students are registered in their final semester, they should submit a Petition for Graduation to the Evaluations Office by email, evaluations@palomar.edu or in person at the Student Services Center, room SSC-40. Petitions are available online or the Evaluations Office. Deadlines are strictly adhered to; petitions must be submitted no later than the dates listed below:

   - Spring graduation – February 28th
   - Summer graduation – June 30th
   - Fall graduation – September 30th

Certificate of Proficiency (CP) Requirements

Certificates of Proficiency are designed to certify basic workplace competencies and job readiness for students who are entering the workforce. In addition to course and certificate requirements, students should be aware of the following:

1. All courses required for each certificate must be taken in residence at Palomar College.
2. A grade of 'C' or higher must be achieved in all certificate courses except where other grade requirements are specified by law.
3. It is the responsibility of the student to ensure satisfactory completion of the certificate requirements. When students are registered in the final semester, they should should submit a Petition for Graduation to the Evaluations Office by email, evaluations@palomar.edu or in person at the Student Services Center, room SSC-40. Petitions are available online or the Evaluations Office.
4. Petitions must be submitted no later than:

   - Spring deadline – February 28th
   - Summer deadline – June 30th
   - Fall deadline – September 30th

5. Certificates of Proficiency are not awarded at the Palomar College Commencement Ceremony. Certificates will be mailed to students following the close of the semester in which they apply.

Noncredit Certificate of Completion (CN) Requirements

Noncredit Certificates of Completion are designed to lead to improved employability or job opportunities that prepare a student to progress in a career path or to undertake credit courses. In addition to course and certificate requirements, students should be aware of the following:

1. All courses required for each certificate must be taken in residence at Palomar College.
2. A satisfactory grade must be achieved in all certificate course work.
3. It is the responsibility of the student to ensure satisfactory completion of the certificate requirements. When students are registered in the final semester, they should should submit a Petition for Noncredit Certificate to the Evaluations Office by email, evaluations@palomar.edu or in person at the Student Services Center, room SSC-40. Petitions are available online, in the ESL department, or the Evaluations Office.
4. Petitions must be submitted no later than:

   - Spring deadline – February 28th
   - Summer deadline – June 30th
   - Fall deadline – September 30th

5. Certificates of Completion are not awarded at the Palomar College Commencement Ceremony. Certificates will be mailed to students following the close of the semester in which they apply.

Noncredit Certificate of Competency (CC) Requirements

Noncredit Certificates of Competency confirm that a student enrolled in a noncredit educational program of noncredit courses and has demonstrated achievement in a set of competencies that prepares students to progress in a career path or to undertake additional degree-

applicable or non-degree-applicable credit courses. In addition to course and certificate requirements, students should be aware of the following:

1. All courses required for each certificate must be taken in residence at Palomar College.
2. A satisfactory grade must be achieved in all certificate course work.
3. It is the responsibility of the student to ensure satisfactory completion of the certificate requirements. When students are registered in the final semester, they should should submit a Petition for Noncredit Certificate to the Evaluations Office by email, evaluations@palomar.edu or in person at the Student Services Center, room SSC-40. Petitions are available online or the Evaluations Office.
4. Petitions must be submitted no later than:

   ◦ Spring deadline – February 28th
   ◦ Summer deadline – June 30th
   ◦ Fall deadline – September 30th

5. Certificates of Competency are not awarded at the Palomar College Commencement Ceremony. Certificates will be mailed to students following the close of the semester in which they apply.

PALOMAR COLLEGE
Associate Degree Competency and General Education
Requirements Fall 2025 - Summer 2026

The following list will assist you in choosing courses to fulfill general education requirements for the Associate in Arts or Associate in Science Degree.

- The course must be on the list at the time it was completed.
- Competency courses in American History and Institutions/California Government may double count in the general education areas they are listed in.
- No course may be used in more than one General Education Area.
- Consult a counselor for specific information regarding major prep and additional GE requirements.

Major: Complete a program as outlined in the Palomar College catalog. Major course work must be completed with a "C" or better.
Grade Point Average: A minimum cumulative GPA of 2.0 ("C" average) or higher is required. Some programs may require a higher GPA.
Residency: A minimum of 12 units in residence as an officially enrolled student at Palomar College is required.
Total Units: A minimum of 60 degree applicable semester units are required. Courses numbered 1-49 are non-degree applicable and do not count toward the degree.

Competence in American History and Institutions/California Government - A "C" grade or higher is required.

- The American History and Institutions/California Government courses may double count in the appropriate general education area they are listed in.
- A single US-1, 2, 3 course may be used in multiple US-1, 2, 3 areas where they are listed.

Option I: Choose a pair:
AIS 101+102; AS 101+102; CS 101+102; HIST 101+102; HIST 140+141; RS 102+RS 103

-OR-

Option II: Choose two courses to complete US Areas 1, 2, and 3.

US – 1		US - 2		US - 3	
AIS 101, 102	**POLS** C1000	**AIS** 101	**LS** 240	**AIS** 102	**HIST** 102, 141
AS 101, 102	**RS** 102	**AS** 101	**POLS** C1000	**AS** 102	**POSC** 120
CS 101, 102		**CS** 101	**RS** 103	**CS** 102	**RS** 103
HIST 101, 102, 140, 141		**HIST** 101, 140			

Circle each US Area completed or in progress.	US 1, 2, 3	Course:_____	C	IP	N
Circle each US Area completed or in progress.	US 1, 2, 3	Course:_____	C	IP	N

Competence in Health and Fitness - A "C" grade or higher is required:

Complete **HE 100** and one fitness activity course: **HE** 100L; **KINE** 105, 128ABCD, 135ABC, 140ABC, 150ABC; **ACS** 100 level intercollegiate sport; **DNCE** 115, 149, 151, 153, 210; **FIRE** 151; or completion of the **Police Academy**. *See supplemental guide for exceptions, including military service.*

Course:_____	C	IP	N
Course:_____	C	IP	N

02/20/2025

General Education Requirements
Minimum 21 semester units required. No course may be used to satisfy more than one General Education Requirement

Area 1: English Composition, Oral Communication and Critical Thinking (7 – 8 units)

1A. English Composition – A "C" grade or higher. Choose one course (3 semester units):
ENGL C1000, 1000E or ESL 110   Course: _____   C   IP   N

1B. Oral Communication and Critical Thinking – Choose one course (3 semester units):
COMM C1000; **ENG** 203; **ENGL** C1001; **PHIL** 116, 200, 201; **READ** 120; **SPCH** 105, 170
                                                                    Course: _____   C   IP   N

Area 2: Mathematical Concepts and Quantitative Reasoning* – A "C" grade or higher. Choose one course (3 semester units):
BUS 110, 204, 136; **CSCI** 112, 114, 210, 212, 222, 260, 290; **CSIT** 128, 165, 175,180, 275, 280; **GEOG** 150; **MATH** 100, 100E, 101, 101E,
105, 106, 110, 110E, 115, 115E, 126, 127, 130, 130E, 132E, 135, 140, 140E, 141E, 200, 205, 206, 245; **PHIL** 116, 201; **PSYC** 205;
SOC 180, 205; **STAT** C1000, C1000E
*Completion of a college-level intermediate algebra course or the equivalent may satisfy this requirement
                                                                    Course:_____   C   IP   N

Area 3 Arts and Humanities – Choose one course (3 semester units):
AIS 100, 104, 105, 108A, 108B, 135, 145, 150, 166A, 166B, 167A, 167B, 180B, 181A, 181B, 207A, 207B, 266A, 266B, 282A, 282B; **AMS**
100, 105; **ANTH** 135, 155; **ARAB** 101, 102, 201; **ARCH** 120, 121, 122; **ART** 100, 102, 104, 105, 163, 164, 165, 166, 169; **ASL** 100, 101,
110, 205, 206; **CHIN** 101, 102, 201; **CINE** 100, 102, 103, 106, 110, 120, 122, 123; **CS** 100, 140, 155; **DBA** 100, 230; **DNCE** 100, 101, 102,
105; **ENG** 205, 210, 211, 220, 221, 225, 226, 230, 250, 255, 260, 270, 280, 290; **ESL** 101, 103, 106; **FASH** 130; **FREN** 101, 102, 201, 202;
GC 115; **GERM** 101, 102, 201, 202, 225; **HIST** 105, 106; **HUM** 100, 101; **ITAL** 101, 102, 201, 202, 225; **JAPN** 101, 102, 130, 201, 202;
MUS 100, 101, 102, 103, 169, 171; **PHIL** 111, 114, 121, 122, 125, 126, 140, 141, 142, 250; **PHOT** 125; **RS** 101, 105, 108, 110;
SPAN 101, 101A, 101B, 102, 201, 202, 211, 212, 235; **TA** 100, 150
                                                                    Course:_____   C   IP   N

Area 4: Social and Behavioral Sciences – Choose one course (3 semester units):
AAS 100; **AIS** 101, 102, 110, 115, 121, 125, 130, 140, 165; **AJ** 100; **AMS** 200; **ANTH** 105, 107, 110, 115, 125, 126, 130, 137, 140; **AS** 100,
101, 102, 120, 126; **CHDV** 100, 110, 115, 172; **COMM** 100, 105; **CS** 101, 102, 140, 160; **ECON** 100, 101, 102, 110, 115, 120, 125; **EDUC**
172; **ENG** 150 ; **GBST** 101, 102; **GEOG** 103, 105; **HIST** 101, 102, 107, 108, 121, 130, 140, 141, 150, 151, 160; **LS** 121, 240; **MCS** 100, 200;
POLS C1000; **POSC** 100, 101, 102, 110, **PSYC** C1000, 105, 110, 120, 125, 130, 211, 225, 235; **RS** 102, 103, 108; **SOC** 100, 105, 110, 115,
125, 130, 135, 165, 175, 200; **SPCH** 120, 131
                                                                    Course:_____   C   IP   N

Area 5: Natural Sciences – Choose one course (3 semester units). The underlined courses include a laboratory.
ANTH 100, 101; **ASTR** 100, 120; **BIOL** 100, 101, 102, 110, 118, 125, 126, 130, 131, 135, 140, 145, 200, 201, 210, 211, 212;
CHEM 100, 104, 105, 110, 115, 205, 220, 221; **ENGR** 210; **ES** 115; **GEOG** 100, 110, 115; **GEOL** 100, 110, 120, 150; **NUTR** 185;
OCN 100; **PHSC** 101; **PHYS** 101, 102, 120, 121, 200, 201, 230, 231, 232; **PSYC** 210
                                                                    Course:_____   C   IP   N

Area 6: Ethnic Studies – Choose one course (3 semester units):
AIS 100, 101, 102, 125; **AS** 100, 101, 102; **CS** 100, 101, 102, 140, 160
                                                                    Course:_____   C   IP   N

Notes:
_____
_____

02/20/2025

General Education/Institutional Student Learning Outcomes

Institutional Learning Outcomes (ILO) Definitions

Applicable to ALL Palomar courses and programs

Communication – Communicate effectively with clarity and purpose in academic, community, workplace, and/or creative contexts using one or more of the following modalities: verbal, visual, auditory, or written language.

Critical Thinking – Critically analyze and evaluate content, issues, alternative viewpoints, ideas, artifacts, STEM-based problems, or events to form an opinion or draw a conclusion.

Civic Knowledge and Engagement – Recognize political, social, and cultural responsibilities and have the knowledge, skills, values, and/or motivation to make a positive contribution to various communities.

Quantitative Reasoning – Explain and convert information into relevant mathematical structures (equations, graphs, diagrams, tables, etc.), form critical judgments, draw appropriate conclusions based on the quantitative analysis of data, and/or utilize quantitative evidence in support of an argument or decision.

Information Literacy – Determine the appropriate scope of information needed, access and critically evaluate information and its sources, and/or apply information accurately, ethically, and legally to accomplish a specific purpose.

Ability to Engage with Diverse Perspectives – Respectfully interact with individuals of diverse perspectives, beliefs, and values while being mindful of biases in one's cultural framework. This may include articulation of critical self-awareness, recognition, acknowledgement, and/or conceptualization of the complexities of historical and lived experiences.

General Education Learning Outcomes (GELO) Definitions

Applies to courses included in a degree, certificate, or GE pattern. The College's general education outcomes include all the ILOs plus two additional outcomes:

Foundational Knowledge of the Discipline
Apply foundational methods of inquiry and analysis of diverse disciplines.

Integrative Learning
Synthesis and advanced accomplishment across general and specialized studies. May be demonstrated through learning communities, service learning, work-based learning, engagement through the arts, capstone projects, etc.

7 **TRANSFER INFORMATION**

Additional Degree Information

Catalog Rights and Continuous Enrollment Criteria

Eligibility for graduation is determined by catalog rights and continuous enrollment. Students who do not wish to use the catalog in effect at the time they began continuous enrollment should indicate which catalog they wish to use; otherwise, the catalog under which they began continuous enrollment, or the current catalog, will be used.

Continuous enrollment is defined as attendance in one semester or two quarters (Spring, Summer or Fall) within a calendar year (January through December) in the CSU, UC, or California Community Colleges system following initial enrollment at Palomar. A student must have received a letter grade (including "W", "EW", "MW") in the semesters of attendance to maintain continuous enrollment. If a student does not maintain continuous enrollment, the evaluation will be based on the requirements in effect at the time of return to Palomar College, or the date the degree is awarded.

Notice of Intent to Graduate

When all requirements are completed or in progress, students should submit a Petition for Graduation to the Evaluations Office in the Student Services Center, room SSC-40. Petitions are available online or the Evaluations Office. Deadlines are strictly adhered to; petitions must be submitted no later than the dates listed below.

> Spring graduation – February 28th
> Summer graduation – June 30th
> Fall graduation – September 30th

Conferring of Degrees

Associate in Arts for Transfer and Associate in Science for Transfer degrees will be conferred formally at the Commencement Ceremony held in May at the end of each spring semester. However, students will receive their degree following the close of the semester in which they apply for graduation.

Associate Degree for Transfer Requirements

General Education Transfer Pattern Requirements

California Community Colleges offer the Associate Degrees for Transfer to the CSU. These may include Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T) degrees. These degrees are designated to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are granted admission with junior standing somewhere in the CSU System and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses. Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units. To view the most current list of Palomar College Associate Degrees for Transfer and to find out which CSU campuses accept each degree, go to I can go to college or the California State University Associate Degree for Transfer major and campus search. Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

I. Minimum Units

The Associate degree for transfer requires completion of a minimum of sixty (60) CSU-transferable semester units. (See the Course Numbering System and Transfer Identification listing.)

II. Grade Point Average (GPA)

Maintain a cumulative grade point average of 2.0 ('C' average) or higher for all CSU-transferable course work attempted.

III. Residency

Complete a minimum of twelve (12) semester units in residence as an officially enrolled student at Palomar College.

IV. Major

Complete a minimum of 18 semester units in an AA-T or AS-T major as detailed in Section 8 of the catalog. All courses in the major must be completed with a grade equivalent to a "C" or better (Title 5, 55063).

V. District Requirements

Students following Associate Degrees for Transfer (AA-T or AS-T) are not held to Palomar College District Requirements.

VI. General Education Requirements

Complete the California General Education Transfer Curriculum (Cal-GETC).

VII. Transfer Model Curriculum Reciprocity

1. For those students who come to Palomar College having already begun an AA-T or AS-T at another college in a particular area of study and having already completed courses as stipulated by that college for that AA-T or AS-T, Palomar will accept any courses listed on the TMC, even if they are different from those stipulated by Palomar College.

2. For those students who begin their AA-T or AS-T at Palomar College, Palomar will accept only those courses stipulated by Palomar College for the AA-T or AS-T.
3. For the two-year period following a department's official introduction of its AA-T or AS-T, the Articulation Officer will consult with the department when any issue arises about the acceptance of a course outside of those courses stipulated by the department.

California General Education Transfer Curriculum (Cal-GETC) Requirements - UC/CSU

Completion of the California General Education Transfer Curriculum (Cal-GETC) will permit a student to transfer from a California Community College (CCC) to a California State University (CSU) campus or program without the need, after transfer, to take additional lower-division, general education courses to satisfy campus general education requirements. Completion of Cal-GETC will permit a student to transfer from a California Community College (CCC) to a University of California (UC) campus or program generally without the need, after transfer, to take additional lower-division, general education courses to satisfy campus general education requirements. For most students, it is strongly recommended that students complete Cal-GETC prior to transfer. Advantages of completing Cal-GETC may include more flexibility in class selection at the university and timely progress to degree completion. All CSUs and most UC campuses and programs will accept certified Cal-GETC completion as satisfying lower-division general education requirements. Note that some individual colleges or majors within a UC campus may not accept or recommend Cal-GETC to fulfill all of their general education requirements. A list of those UC colleges and majors is found on the UC Admissions web page (under "general education"). Note: Students transferring to a CSU who have Cal-GETC certified as complete will still need to complete 9 semester units of upper-division general education (GE) after transfer and may also be held to other campus specific graduation requirements outside of general education and major coursework.

Completion of the Cal-GETC is not an admission requirement or admission guarantee for transfer to the CSU or UC, nor is it the only way to fulfill the lower-division, general education requirements for students at the CSU or UC. However, Cal-GETC may be a requirement for some programs (e.g., if an ADT is required). Completion of the Cal-GETC lower-division General Education Transfer pathway may not be appropriate for some engineering, math, or science students or for students completing majors that have a high number of lower-division unit requirements (especially those without a Transfer Model Curriculum for the Associate Degree for Transfer). Such students may be advised to focus on completing their lower-division major preparation requirements while meeting minimum admission requirements (e.g., the UC seven-course pattern for UC admissions). Such a student would not be CalGETC certified prior to transfer.

PALOMAR COLLEGE
The California General Education Transfer Curriculum (Cal-GETC)
Fall 2025 - Summer 2026

Completion of Cal-GETC will permit a student to transfer from a California Community College to a California State University or a University of California campus or program generally without the need, after transfer, to take additional lower-division, general education courses to satisfy campus general education requirements. Although it is strongly recommended to complete Cal-GETC prior to transfer, completion of Cal-GETC may not be appropriate for some engineering, math, science, or other high unit majors. Please see a counselor for details.

A course must have a minimum unit value of 3 semester units to meet the requirements for Cal-GETC.
A minimum "C" grade is required in each college course for Cal-GETC. A "C" is defined as a minimum of 2.0 grade points on a 4.0 scale.

C: Complete **IP:** In Progress **N:** Need

AREA 1: ENGLISH COMMUNICATION – 3 courses required. 9 semester units.

1A. English Composition - **ENGL** C1000, 1000E or **ESL** 110   Course: _____ C IP N

1B. Critical Thinking and Composition - **ENG** 203; **ENGL** C1001; **PHIL** 200   Course: _____ C IP N

1C. Oral Communication - **COMM** C1000   Course: _____ C IP N

AREA 2: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING – 1 course. 3 semester units.

BUS 204; **CSIT** 128; **MATH** 101, 101E, 110, 110E, 126, 127, 130, 130E, 135, 140, 141, 200, 205, 206, 245; **PSYC/SOC** 205; SOC 180; **STAT** C1000, 1000E

Course: _____ C IP N

AREA 3: ARTS AND HUMANITIES – 2 courses – one Arts (3A) and one Humanities (3B). 6 semester units.

3A. Arts

AIS 104, 105, 135	**CINE** 100, 102, 103, 110, 120, 122	**GC** 115	**PHOT** 125
ARCH 120, 121	**DNCE** 100, 101, 102, 105	**MUS** 100, 101, 102, 169, 171	**TA** 100, 150
ART 100, 163, 164, 165, 166, 169			

Course: _____ C IP N

3B. Humanities

AIS 100, 107B, 108A, 108B, 145, 150, 166B, 167A, 167B, 180B, 181A, 181B, 207A, 207B, 266A, 266B, 282A, 282B	**CHIN** 201	**FREN** 201, 202	**PHIL** 111, 114, 121, 122, 125, 126, 140, 141, 142
AMS 100, 105	**CINE** 106, 123	**GERM** 201, 202, 225	**RS** 101,105, 108, 110
ANTH 135, 155	**CS** 100, 140, 155	**HIST** 101, 102, 105, 106, 107, 108, 121, 130, 140, 141, 150, 151, 160	**SPAN** 201, 202, 211, 212, 235
ARAB 201	**ENG** 205, 210, 211, 220, 221, 225, 226, 230, 250, 255, 260, 270, 280, 290	**HUM** 100, 101	
ASL 110, 205, 206	**ESL** 106	**ITAL** 201, 202, 225	
		JAPN 130, 201, 202	

Course: _____ C IP N

AREA 4: SOCIAL AND BEHAVIORAL SCIENCES – 2 courses from two academic disciplines. 6 semester units.

AAS 100	**ASL** 110	**GBST** 101, 102	**PSYC** C1000, 105, 110, 120, 125, 130, 211, 225, 235
AIS 101, 102, 110, 115, 121+(F24), 125, 130, 140, 165	**CHDV** 100, 115, 172	**GEOG** 103, 105	**RS** 102, 103, 108
AJ 100	**COMM** 100, 105	**HIST** 101, 102, 105, 106, 107, 108, 121, 130, 140, 141, 150, 151, 160	**SOC** 100, 105, 110, 115, 125, 130, 135, 165, 170, 175, 200
AMS 200	**CS** 101, 102, 140, 160	**LS** 121, 240	**SPCH** 120
ANTH 105, 107, 110, 115, 125, 126, 130, 140	**ECON** 100, 101, 102, 110, 115, 120, 125	**MCS** 100, 200	
AS 100, 101, 102, 120	**EDUC** 172	**POLS** C1000 **POSC** 100, 110	
	ENG 150		

Course: _____ C IP N

AREA 5: PHYSICAL AND BIOLOGICAL SCIENCES – 2 courses – one Physical Science and one Biological Science; at least one of the two courses must be associated with a laboratory. Courses with a lab included are underlined and lab only courses are identified with "L". 7 semester units.

5A. Physical Sciences

ASTR 100, 105L, 120
CHEM 100, 104, 105, 110, 110L, 115, 115L, 205+(F07), 220, 221

ES 115
GEOG 100, 100L, 110, 115
GEOL 100, 100L, 120, 150, 150L

OCN 100, 100L
PHYS 101, 102, 120, 121, 200, 201, 230, 231, 232

Course: _____   C   IP   N

5B. Biological Sciences

ANTH 100, 100L, 101

BIOL 100, 101, 101L, 102, 110, 118, 118L, 125, 126, 126L, 130, 131, 131L, 135, 140, 145, 145L, 200, 201, 210, 211, 212

PSYC 210

Course: _____   C   IP   N

5C. Laboratory Activity - This requirement is met by selecting any underlined lecture course with a lab from 5A or 5B or by completing any lab (L) course with its corresponding lecture.

Course: _____   C   IP   N

AREA 6: ETHNIC STUDIES – 1 course: 3 semester units; this course must be in ethnic studies or in a similar field.

AIS 100, 101, 102, 125; **AS** 100, 101, 102; **CS** 100, 101, 102, 140, 160

Course: _____   C   IP   N

CSU GRADUATION REQUIREMENT in U.S. HISTORY, CONSTITUTION, and AMERICAN IDEALS (CSU requirement): This area is not required for certification. CSU campuses may permit up to 6 semester units taken to meet the United States History, Constitution and American Ideals to satisfy GE requirements.

Option I: Choose a pair:
AIS 101+102; AS 101+102; CS 101+102; HIST 101+102; HIST 140+141; RS 102+ 103
-OR-
Option II: Choose two courses to complete US Areas 1, 2, and 3. Courses may be used in more than one US area.

US – 1		US - 2		US - 3	
AIS 101, 102	**POLS** C1000	**AIS** 101	**LS** 240	**AIS** 102	**HIST** 102, 141
AS 101, 102	**RS** 102	**AS** 101	**POLS** C1000	**AS** 102	**POSC** 120
CS 101, 102		**CS** 101	**RS** 103	**CS** 102	**RS** 103
HIST 101, 102, 140, 141		**HIST** 101, 140			

Circle each US Area completed or in progress.   US 1, 2, 3   Course: _____   C   IP   N
Circle each US Area completed or in progress.   US 1, 2, 3   Course: _____   C   IP   N

Common Course Numbering Course Prefix and Number Changes:

Old Prefix/Number	New Common Course Prefix/Number
ENG 100, ENG 100E, ENG 202	ENGL C1000, ENGL C1000E, ENGL C1001
SPCH 100	COMM C1000
MATH 120, 120E	STAT C1000, STAT C1000E
POSC 101+102	POLS C1000
PSYC 100	PSYC C1000

Notes: _____

_____

_____

Private and Out-of-State Universities

Admissions policies vary widely from one school to another, and most institutions will award credit from Palomar College for courses designated as transfer level. Private and out of state colleges and universities usually will award credit for prior coursework which is parallel in scope and content to courses offered for credit to lower division students at those institutions. Acceptance and usage of prior coursework from Palomar (or any institution) is at the discretion of the transfer institution unless an articulation agreement exists between institutions. There are some private and out of state institutions where articulation agreements are available and these are located on the Palomar College Articulation webpages.

The cost of tuition as well as the availability of financial aid and scholarships are primary factors to consider when planning to attend a private or out of state college or university. Most students can cut tuition costs in half by attending a community college to complete lower division coursework. Information on financial aid and scholarships can be found on the webpages of any transfer institution being considered as well as in the Financial Aid Office at Palomar College.

Palomar College offers courses similar to those offered in the lower division or freshman and sophmore levels (year 1 and year 2) of four-year colleges and universities. Since course requirements for graduation vary between colleges, it is to the student's advantage to choose the college or university to which he or she plans to transfer as early as possible.

Students are encouraged to meet with a Palomar counselor to develop a educational plan best suited for their transfer institution and intended major. Counselors in the Transfer Center and Counseling Department are available to provide guidance on course selection, admissions processes, and other critical considerations for transfer to out of state and private colleges and universities.

The California State University (CSU) System

The California State Universities (CSU) system is one of two public university systems in the state (the other being the University of California) that provides a variety of Bachelor's degrees. The CSU works closely with the California Community Colleges to provide excellent opportunities for community college students to transfer and earn their Bachelor's degree.

Palomar College students wishing to transfer to a California State University may consider any of the 23 CSU campuses:

- Bakersfield
- California Maritime Academy*
- Cal Poly, Humboldt
- Cal Poly, Pomona
- Cal Poly, San Luis Obispo*
- Channel Islands
- Chico
- Dominguez Hills
- East Bay
- Fresno
- Fullerton
- Long Beach
- Los Angeles
- Monterey Bay
- Northridge
- Sacramento
- San Bernadino
- San Diego
- San Francisco
- San Jose
- San Marcos
- Sonoma
- Stanislaus

* Effective fall 2026, California Maritime Academy will be integrated with Cal Poly, San Luis Obispo

Students planning to transfer to a California State University should plan a program to meet the admissions and graduation requirements of the specific institution that they plan to attend. It is advisable to consider preparing for and applying to more than one university.

Some CSU campuses and majors have fewer spaces available than transfer applicants and are therefore considered "impacted". Impacted campuses and majors will require more than the CSU minimums to be accepted and are more competitive for admission. Majors or campuses which are impacted will give priority to their "local" applicants. Palomar students get "local" priority to all majors at CSUSM and some majors at SDSU.

See a Palaomr counselor to inquire about individual campus requirements.

Upper Division Transfer Admission Requirements

Minimum eligibility requirements for admission include the following, but may not be competitive for all campuses and/or majors:

1. Have a college grade point average of 2.0 or better (2.4 for non-California residents) in all transferable college units completed.
2. Be in good standing at the last college or university attended, i.e., you are eligible to re-enroll.
3. Have completed or will complete prior to transfer at least 30 General Education semester units (45 quarter units).
4. Complete Written Communication, Oral Communication, Critical Thinking, and Mathematics/Quantitative Reasoning, with grades of 'C-' or better in each course.
5. Have a total of 60 CSU transferable units completed by the end of the spring term before a fall transfer or by the end of the summer term if applying for a spring semester transfer.
6. The summer term is not allowed to be used to meet minimum transfer requirements for a subsequent fall semester transfer. For students planning to transfer into a spring semester, the minimum requirements must be met by the end of the prior summer term.

Please be advised that these are minimum entrance requirements, and that they do not guarantee admission to any of the 23 CSU campuses. Some CSU campuses are currently requiring completion of all general education courses, as well as completion of all lower division major preparatory course work offered at the community college you are attending to be competitive. GPA requirements will vary with the applicant pool. Prospective transfer students are urged to make an appointment with a counselor to begin their transfer planning early.

Application Filing Periods

All California State Universities use a common admission process. Some campuses require supplemental application materials. Students must apply online at https://www.calstate.edu/apply.

Fall Semester or Quarter - October 1-November 30 of the prior year
Spring Semester or Quarter - August 1-August 30 of the prior year

NOTE: Filing an application on time, correctly, and completing the required follow-up steps can make the difference between being accepted or not. Not all CSU are open in spring/winter.

General Education/Breadth Options

Students beginning their college education with Palomar College in the Fall of 2025 and onwards may fulfill the lower division general education requirements prior to transfer by completing the California General Education Transfer Curriculum (Cal-GETC) or the specific lower division general education/breadth requirements of the campus to which they intend to transfer.

Continuing students who have started with Palomar in the spring 2025 and earlier and have not broken enrollment may continue to utilze the CSU GE or IGETC GE patterns.

As the public higher education system in California begins to transition to the use of Cal-GETC it is critical that students consult a Palomar College counselor to determine which General Eduation option is best suited for their educational objective.

General Education Certification

Certification is a legal agreement between CSU and community colleges in California to assure that CSU lower division general education requirements have been satisfied.

Students must submit a Graduation Petition to the Evaluations Office at Palomar College in order to be certified for the California General Education Transfer Curriculum (Cal-GETC). Official transcripts from other colleges and universities, Advanced Placement exams and International Baccalaureate exams must be on file before submitting the petition, and will be reviewed for inclusion in the certification process.

Advanced Placement (AP) Program

Palomar College will accept AP exams toward fulfillment of the California General Education Transfer Curriculum (Cal-GETC). Please refer to the AP exam chart for acceptable general education scores and placement. Please see a counselor for AP acceptance toward major preparation and units toward transfer.

College Level Examination Program (CLEP)

CLEP exams shall not be applied toward the California General Education Transfer Curriculum (Cal-GETC).

International Course Work

Palomar College will not include international course work for general education certification. Due to the varying policies in the acceptance of international transcripts, the determination regarding their use is left to the transfer institution.

International Baccalaureate (IB) Program

Palomar College will accept some IB exams toward fulfillment of the California General Education Transfer Curriculum (Cal-GETC) requirements. Please refer to the IB exam chart for acceptable general education scores and placement. Please see a counselor for IB acceptance toward major preparation and units toward transfer.

Petition for Certification

Upon enrollment in final requirements, students should submit a Petition for Graduation to the Evaluations Office via email to evaluations@palomar.edu or to Student Services Center, room SSC-40.

The University of California (UC) System

The University of California is an integral part of the public education system of California. The undergraduate campuses of the University of California are located in:

- Berkeley
- Davis
- Irvine
- Los Angeles
- Merced
- Riverside
- Santa Barbara
- Santa Cruz
- San Diego

Each campus of the University of California accepts coursework from the California Community Colleges system when designated as UC transferable. Students should refer to www.assist.org to confirm UC transferrability and any credit limitations that may apply. Students intending to transfer to UC will find it advantageous to complete their lower division requirements at Palomar College. To prepare for transfer, students must decide which university they will attend through research in the Transfer Center, located in the Student Services Center, and consult a counselor for the specific requirements for that particular campus and to create an educational plan.

Upper Division Transfer Admission Requirements

Minimum eligibility requirements for admission include the following, but may not be competitive for all campuses and/or majors.

1. Complete 60 UC transferrable units with a grade point average of at least 2.4 (2.8 or higher for non-resident students).
2. Complete the following course pattern, earning a grade of 'C' or better in each course:

   ◦ Two designated transferable college courses in English composition
   ◦ One designated transferable college course in mathematical concepts and quantitative reasoning

    ◦ Four UC transferable college courses chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, and the physical and biological sciences.

Application Filing Periods

The University of California system includes nine campuses. All campuses follow similar entrance requirements and use a common application form. However, individual campuses may impose additional entrance criteria for impacted universities, majors and programs. Consult the university catalog, a Palomar College counselor staff, or www.assist.org for specific information. Applications may be accessed at www.universityofcalifornia.edu/apply.

Application filing periods:

    Fall Quarter/Fall Semester - October 1 - November 30 the year prior to the anticipated transfer term
    Winter Quarter* - July 1 – 31 the summer prior to the anticipated transfer term

*Not all UC campuses will be open for the winter.

Students may transfer up to 70 UC transferable community college units to the UC. Students who take more than 70 units with the community college can still earn "content" credit towards course requirements.

 A minimum 2.4 GPA is required for minimum UC admission consideration, but most UC campuses and majors will require a higher GPA to be competitive.

Students are strongly encouraged to prepare for and apply to more than one university option.

General Education/Breadth Options

Each school and college at every UC campus has its own general education/breadth requirements. Students may fulfill the lower division general education/breadth requirements by completing one of the following two options:

1. The California General Education Transfer Curriculum (Cal-GETC).
2. The specific lower division general education/breadth requirements of the campus to which they intend to transfer.

The California General Education Transfer Curriculum (Cal-GETC) is listed in the Transfer section of the catalog and is also listed on the ASSIST website at www.assist.org. Students should consult with a Palomar College counselor to determine which option is best suited for their educational objective.

*Use of Cal-GETC may not be accepted or recommended for some majors. Consult with a counselor regarding these restrictions.

General Education Certification

Certification is a legal agreement between UC and community colleges in California to assure that UC lower division general education requirements have been satisfied.

Cal-GETC is not a requirement for transfer to a UC. Upon enrollment in final requirements, the student should submit a Petition for Graduation form to the Evaluations Office. Official transcripts from other colleges and universities, Advanced Placement exams, high school transcripts and International Baccalaureate exams must be on file before submitting the petition, and will be reviewed for inclusion in the certification process.

Transfer Admission Guarantee Programs

Palomar College has transfer admission guarantee programs with seven campuses of the University of California. All of these agreements guarantee admission into the university.

UCSD UniversityLink
UniversityLink guaratees admission and provides a variety of support services after transfer to UCSD for students who:

• have family income less than $40,000 per year and are a first-year student at one of the UniversityLink local partner community colleges (Palomar) **or**
• are a student veteran, active duty service member or current/former foster youth attending one of the UniversityLink local partner community colleges (Palomar) regardless of first-time college status.

Check the UCSD UniversityLink webpages or speak to a Palomar College counselor for more details and requirements.

TAG
Each Transfer Admission Guarantee (TAG) program varies in regard to eligibility, terms of transfer, minimum grade point average (GPA), etc. Visit the Transfer Center or the Transfer Center web page at www.palomar.edu/transfercenter for additional updated information.

The following is a list of UC campuses with which Palomar College has admission guarantee programs:

• **University of California, Davis (UCD)**
• **University of California, Irvine (UCI)**
• **University of California, Merced (UCM)**
• **University of California, Riverside (UCR)**
• **University of California, Santa Barbara (UCSB)**

- **University of California, Santa Cruz (UCSC)**

Transfer Planning

Students planning to transfer to a four-year university have a wide variety of options. The California State University (CSU) with 23 campuses, the University of California (UC) with 9 campuses offering undergraduate education, and numerous out-of-state and private colleges and universities which offer a large array of academic programs, physical and academic environments, and social climates. In most cases, Palomar College offers the equivalent of the first two years (lower division coursework) towards the degrees at these four-year colleges and universities. Students wishing to pursue any of these educational options should meet with a counselor as early as possible to discuss their educational plan.

Successful transfer planning requires the following steps:

- Selecting an academic and/or career goal
- Selecting an appropriate major to meet your goal
- Reviewing and selecting a college or university most closely aligned with personal and academic goals
- Developing and completing a course of study in preparation for transfer
- Completing the application and admissions process
- Consider several strong options for transfer to assure at least 1 admission offer

Students are encouraged to take advantage of the resources and assistance available in the Transfer Center to successfully complete the steps listed above.

Transfer Guarantee Opportunities:

- Historically Black Colleges and Universities (HBCU) CCC Guarantee- All partner HBCUs offer guaranteed admission for California Community College students with at least a 2.0 GPA (some HBCU partners may require a higher GPA) and an ADT or 30 transfer units.
- Associate Degree for Transfer (AD-T) guarantees acceptance to at least one CSU with a similar major.
- San Diego State University (SDSU) Transfer Admission Guarantee (TAG) - for some majors not offered at CSUSM when minimum GPA and course requirements are met.
- University of California San Diego (UCSD) University Link (ULink)- for a first-year student planning on attending a UniversityLink local partner community college such as Palomar and whose family earns less than $40,0000, or students who are veterans or active duty, or current and former foster youth. Requires a 3.5 or better UC GPA.

- UC Transfer Admission Guarantee (TAG) to UC Davis, UC Irvine, UC Merced, UC Riverside, UC Santa Barbara or UC Santa Cruz

All transfer guarantee programs are subject to change. Not all benefits and requirements are detailed here, and students are encouraged to meet with a counselor for more the most current information.

To prepare for transfer, students must decide which campus they will attend through research in the Transfer Center, located in the Student Services Center (SSC) Building, and consult a counselor for the specific requirements for that particular campus and to create an educational plan. All colleges and universities have specific admission requirements and may have course and unit requirements as well as minimum grade point averages that must be met prior to transfer. Four-year colleges and universities require students to complete specific general education requirements and major preparation requirements. Students should complete as many of these requirements as possible before they transfer. Palomar College maintains articulation agreements with many colleges and universities which list courses that satisfy general education requirements and lower division major preparation for transfer. For more detailed information, go to www.palomar.edu/transfercenter.

	AA, AS = Associate Degree | AA-T, AS-T = Associate Degree for Transfer | CA = Certificate of Acheivement | CP = Certificate of Proficiency | NC = Noncredit Certificate								
Pathway	Program Title	AA	AS	AA-T	AS-T	CA	CP	NC	Page
Arts, Media and Design									
	Architectural Building Information Modeling, B.I.M		X			X			103
	Architecture		X			X			103
	Art History			X					103
	Basic Dance					X			106
	Basic Music Skills						X		106
	Cinema Studies	X				X			117
	Commercial Photography Certificate						X		120
	Communication Studies 2.0			X					120
	Dance: Emphasis in Euro-Western Dance	X				X			124
	Dance: Emphasis in General Dance	X				X			125
	Dance: Emphasis in World Dance	X				X			126
	Digital Arts						X		128
	Digital Imaging		X			X			128
	Digital Media						X		129
	Digital Video		X			X			129
	Drone Operator I					X			131
	Fashion Design		X			X			137
	Fashion Merchandising		X			X			138
	Fashion: Visual Merchandising		X			X			138
	Film, Television, and Electronic Media				X				139
	General Studies: Emphasis in Arts and Humanities	X							142
	Glassblowing					X			150
	Graphic Communications		X			X			151
	Graphic Design		X						152
	Graphic Designer I					X			152
	Illustration		X						153
	Interactive Media Design: Emphasis in 3D Modeling and Animation		X			X			154
	Interior Design		X						155
	Interior Design					X			155
	Journalism			X					156
	Journalism					X			156
	Multimedia Design		X			X			165
	Multimedia Journalism					X			165
	Multimedia Production I					X			165
	Music	X							166
	Music			X					166
	Musical Theatre Preparation					X			167
	New Media Compositing, Authoring, and Distribution		X			X			168
	Photography	X				X			174
	Pictorial Arts: Painting	X							174
	Public Relations					X			176
	Radio and Television	X				X			177
	Screen Printer						X		182
	Screen Printer I					X			182
	Screen Printing		X			X			183
	Studio Arts			X					189
	Theatre Arts	X							190
	Theatre Arts			X					190
	Three-Dimensional Arts: Ceramics	X							191
	Three-Dimensional Arts: Crafts	X							192
	Three-Dimensional Arts: Glass	X							192
	Three-Dimensional Arts: Jewelry and Metalsmithing	X							192
	Three-Dimensional Arts: Sculpture	X							193
	Web Designer I					X			203
Business									
	Accounting		X			X			90
	Administrative Assistant		X			X			93
	Advertising and Marketing					X			94
	Bookkeeping/Accounting Clerk					X			109

Pathway	Program Title	AA	AS	AA-T	AS-T	CA	CP	NC	Page
	AA, AS = Associate Degree | AA-T, AS-T = Associate Degree for Transfer | CA = Certificate of Acheivement | CP = Certificate of Proficiency | NC = Noncredit Certificate								
	Business Administration 2.0				X				109
	Business Management					X			110
	Creating Your Business in a Gig Economy						X		123
	E-Marketing		X			X			131
	General Business		X						142
	International Business					X			155
	Military Leadership		X			X			164
	Project Management							X	211
	Real Estate Appraisal License Preparation						X		178
	Real Estate Broker License Preparation		X			X			179
	Real Estate Salesperson License Preparation						X		180
	Retail Management					X			182
	Small Business Entrepreneurship					X			183
	Social Media					X			185
Health and Public Services									
	Administration of Justice				X	X			90
	Administration of Justice- General		X						91
	Administration of Justice: Emergency Management for Public Safety Personnel					X			91
	Administration of Justice: Modern Policing		X						92
	Adult Fitness and Health					X			93
	Alcohol and Other Drug Studies		X			X			95
	Basic Police Academy					X			107
	Coaching					X			119
	EMT Basic						X		134
	Fire Academy					X			139
	Fire Technology - Emergency Management		X			X			140
	Fire Technology - General		X			X			140
	Kinesiology	X							157
	Kinesiology		X						157
	Law, Public Policy and Society			X					160
	Medical Office Specialist		X			X			163
	Medical Professions Prep							X	210
	Nursing		X						168
	Nursing	X							168
	Nutrition and Dietetics				X				171
	Paramedic Training		X			X			172
	Pathway to Law					X			172
	Pre-Allied Health		X			X			175
	Registered Dental Assisting		X			X			180
	Regular Basic Course: Police Academy Module I					X			180
	Regular Basic Course: Police Academy Module II					X			181
	Regular Basic Course: Police Academy Module III					X			182
	University Studies: Emphasis in Health and Fitness		X						197
Humanities and Languages									
	American Sign Language/English Translation & Interpreting Studies		X			X			96
	Biliteracy					X			107
	Computer Skills for ESL							X	208
	Conversation Skills for ESL							X	209
	Deaf Studies	X							127
	ESL Work Readiness							X	209
	English	X							135
	English		X						135
	English as a Second Language							X	209
	French	X				X			141
	German	X				X			150
	Grammar Skills for ESL							X	210
	Italian	X				X			155
	Japanese	X				X			156
	Philosophy			X					173
	Reading Skills for ESL							X	211

Pathway	Program Title	AA	AS	AA-T	AS-T	CA	CP	NC	Page
span	AA, AS = Associate Degree | AA-T, AS-T = Associate Degree for Transfer | CA = Certificate of Acheivement | CP = Certificate of Proficiency | NC = Noncredit Certificate								
	Spanish			X					187
	Spanish					X			187
	Speaking Skills for ESL							X	211
	Speech Communication	X							188
	University Studies: Emphasis in Arts and Humanities	X							195
Other									
	Adult Basic Education							X	208
	Adult Education Workforce Preparation							X	208
	California General Education Transfer Curriculum (Cal-GETC)					X			111
	College Preparation							X	208
Science, Technology, Engineering, and Math									
	Advanced Geographic Information Systems		X			X			94
	Astronomy					X			104
	Biology				X				108
	Biology-Preprofessional		X			X			109
	CIS: Data Analytics		X			X			118
	Chemistry		X						112
	Cloud Computing Technician					X			119
	Cloud Computing and Virtualization		X						119
	Computer Network Administration		X			X			121
	Computer Network Administration with Emphasis: Cisco		X			X			121
	Computer Science		X			X			122
	Computer Science with Emphasis in Video Gaming		X			X			122
	Cyber Defense Infrastructure Support Specialist					X			123
	Cybersecurity		X						123
	Cybersecurity Specialist					X			124
	Data Science		X						127
	Drone Applications and Technologies		X						130
	Drone Operations					X			130
	Engineering		X						134
	Environmental Studies					X			137
	General Studies: Emphasis in Science and Mathematics		X						144
	Geographic Information Systems					X			148
	Geography			X					148
	Geology		X						148
	Geology				X				148
	Getting Started with Drone Careers and Safety							X	209
	Information Technology		X			X			154
	Management Information Systems		X			X			161
	Mathematics		X						162
	Mathematics				X				162
	University Studies: Emphasis in Scientific Studies		X						198
	Web Design and Development		X			X			203
	Web Development					X			203
	Web: Front End Design		X			X			203
Social and Behavioral Sciences									
	American Indian Studies					X			96
	Anthropology			X					97
	Archaeological Field Technician					X			101
	Archaeology	X							102
	Child Development Associate Teacher					X			113
	Child Development Master Teacher: Early Inclusion		X			X			113
	Child Development Master Teacher: Infant/Toddler		X			X			114
	Child Development Master Teacher: Preschool		X			X			115
	Child Development Teacher		X			X			115
	Child Development: Administration		X			X			116
	Child Development: Child and Family Services		X			X			116
	Child Development: School Age Assistant					X			117
	Child and Adolescent Development			X					112
	Early Childhood Education				X				132

Pathway	Program Title	AA	AS	AA-T	AS-T	CA	CP	NC	Page
		AA, AS = Associate Degree | AA-T, AS-T = Associate Degree for Transfer | CA = Certificate of Acheivement | CP = Certificate of Proficiency | NC = Noncredit Certificate							
	Economics	X		X		X			132
	Foundations of Elementary Education					X			140
	Gender, Sexuality and Women's Studies	X							141
	General Studies: Emphasis in Social and Behavioral Sciences	X							146
	Global Studies			X					151
	History			X					153
	Library and Information Technology		X			X			160
	Political Science			X					175
	Psychology			X					176
	Social Justice Studies: American Indian Studies and American Studies			X					183
	Social Justice Studies: Chicana and Chicano Studies			X					184
	Social Justice: Women, Gender and Sexuality Studies			X					185
	Social Work and Human Services	X				X			186
	Sociology			X					186
	University Studies: Elementary Education Preparation	X							193
	University Studies: Emphasis in Social Sciences	X							199
Trade and Industry									
	Air Conditioning, Heating and Refrigeration Entry Employment Ready						X		95
	Air Conditioning/Heating/Refrigeration		X			X			95
	Apprenticeship-Acoustical Installer		X			X			98
	Apprenticeship-Carpentry		X			X			98
	Apprenticeship-Drywall/Lather		X			X			99
	Apprenticeship-Inside Wireman		X			X			100
	Apprenticeship-Intelligent Transportation Systems		X			X			100
	Apprenticeship-Plasterer		X			X			101
	Apprenticeship-Sheet Metal		X			X			101
	Apprenticeship-Sound Technician		X			X			101
	Auto Chassis and Drive Lines		X			X			104
	Auto Collision Repair		X			X			104
	Auto Computer Controls and Electronic Tune-Up		X			X			105
	Auto Mechanics-General		X			X			105
	AutoCAD Drafting and Design					X			106
	Cabinetmaking and Millwork		X			X			111
	Case Furniture Construction/Manufacturing		X			X			112
	Composites Technology		X			X			121
	Creo Parametric Drafting and Design					X			123
	Diesel Technology		X			X			128
	Drafting and Design CADD/CAM Technology		X			X			130
	Electrical Engineering Drafting and Design Technology		X			X			134
	Entry Level MasterCAM Programmer					X			136
	Entry-Level Gas Metal/Flux Cored Arc Weld						X		136
	Entry-Level Gas Tungsten Arc Welding						X		137
	Entry-Level Shielded Metal Arc Welding						X		137
	Guitar Making Technology		X			X			152
	Lathe Turning Technology		X			X			159
	Machining Technology		X			X			161
	Mechanical Engineering Drafting and Design Technology		X			X			163
	Medium/ Heavy Duty Zero Emissions Vehicle Technologies		X			X			164
	Pre-Apprenticeship							X	210
	Public Works Management - Level II		X			X			177
	Quality Control/Inspection Technician					X			177
	SolidWorks Drafting and Design					X			187
	Table and Chair Manufacturing		X			X			189
	Veneering Technology		X			X			201
	Wastewater Technology Education		X			X			202
	Water Technology Education		X			X			202
	Welding Technology		X			X			204
	Woodworking Fundamentals					X			204
	Woodworking Skills Technology		X			X			204

7　**TRANSFER INFORMATION**

Accounting - A.S. Degree Major/Cert. Achievement (18 units or more)

Business Administration Department

The Associate in Arts Degree and/or Certificate of Achievement in Accounting is designed to prepare the graduate for entry into positions in industry, public accounting firms, government, and nonprofit organizations. The graduate will have an understanding of accounting and business concepts.

Learning Outcome(s):

1. Upon successful completion of this program, students will be able to understand and apply accounting concepts and procedures for business decisions.
2. Upon successful completion of this program, students will be able to record and summarize business transactions and prepare basic financial statements following appropriate accounting procedures and in accordance with GAAP.

Program Requirements

Units: 31.0-32.0

ACCT 104	Accounting Spreadsheet Concepts	2.0
ACCT 105	Individual Income Taxes	4.0
ACCT 107	Taxation of Business Entities	4.0
ACCT 110	Quickbooks	2.0
ACCT 115	Sales Tax, Payroll Taxes, and Employee Benefits	2.0
ACCT 201	Financial Accounting	4.0
ACCT 202	Managerial Accounting	4.0
BUS 117	Legal Environment of Business	3.0
Elective (select one of the following three courses)		3.0-4.0
BUS 110	Business Mathematics	3.0
OR STAT C1000	Introduction to Statistics	4.0
OR STAT C1000E	Introduction to Statistics	4.0
OR MATH 130	Calculus for Business and the Social Sciences	4.0
OR MATH 130E	Calculus for Business and the Social Sciences Enhanced	4.0
Elective (select one of the following two courses)		3.0
BUS 125	Business English	3.0
OR BUS 205	Business Communication	3.0

Total: 31.0-32.0

Administration of Justice - AS-T Transfer Major (18 units or more)

Public Safety Programs Department

The field of Administration of Justice is directed toward the prevention, discovery, control and treatment of crimes, criminals, and criminality. This Associate in Science in Administration of Justice for Transfer (A.S.-T.) degree provides a path to students who wish to transfer to a CSU campus in Administration of Justice. The degree allows students to learn the fundamental principles and practices of law enforcement, the court system, and the corrections systems. Students who major in Administration of Justice are preparing for a wide variety of career opportunities in such areas as uniformed police officer, investigation, criminal identification, criminalistics, and corrections.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
2. The California General Education Transfer Curriculum (Cal-GETC)
3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
4. Obtainment of a minimum grade point average of 2.0.

ADTs require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.

List A: Program Requirements

Units: 6.0

AJ 100	Introduction To Criminal Justice	3.0
AJ 104	Criminal Law	3.0

List B: Select 2 courses

Units: 6.0

AJ 101	Criminal Evidence	3.0
AJ 102	Criminal Procedures	3.0
AJ 103	Community and the Justice System	3.0
AJ 110	Basic Criminal Investigation	3.0
AJ 131	Juvenile Justice	3.0
AJ 210	Introduction to Crime Scene Forensic Investigation	3.0

List C: Select 2 courses

Units: 6.0-7.0

PSYC C1000	Introduction to Psychology	3.0
SOC 100	Introduction to Sociology	3.0
Statistics (select up to one of the following two courses)		4.0
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0
OR STAT C1000	Introduction to Statistics	4.0
OR STAT C1000E	Introduction to Statistics	4.0

Total: 18.0-19.0

Administration of Justice - Certificate of Achievement (18 units or more)

Public Safety Programs Department

The Certificate of Achievement in Administration of Justice is designed to provide students with a comprehensive understanding of the criminal justice system, including law enforcement, court procedures, corrections, and public safety. This program equips students with the practical skills and theoretical knowledge necessary to pursue a variety of careers in the field of administration of justice. Students will explore the diverse aspects of the criminal justice system, understanding the impact of race, gender, and socioeconomic status on crime and justice. Also, students will learn to apply inclusive practices and promote equity within the field. This certificate opens doors to various career paths, such as law enforcement officers, correctional officers, probation officers, security specialists, and roles in federal agencies. It also serves as a stepping stone for those planning to pursue an associate or bachelor's degree in Administration of Justice or related fields.

Learning Outcome(s):

1. Analyze the history of the US justice system, its evolution, and milestones.
2. Examine criminal law basics: elements, defenses, and prosecution
3. Discuss justice equity issues, like racial disparities and systemic biases.

4. Explain the structure and function of the criminal justice system, including law enforcement, judiciary, and corrections, and how these components interact to uphold the law and ensure public safety.

Required Courses		**Units:** 12.0
AJ 100	Introduction To Criminal Justice	3.0
AJ 103	Community and the Justice System	3.0
AJ 104	Criminal Law	3.0
AJ 110	Basic Criminal Investigation	3.0

Select Two Courses		**Units:** 6.0
AJ 101	Criminal Evidence	3.0
AJ 102	Criminal Procedures	3.0
AJ 106	Ethics in Administration of Justice	3.0
AJ 131	Juvenile Justice	3.0
AJ 141	Enforcement Psychology	3.0
AJ 180	Criminology	3.0

Total: 18.0

Administration of Justice - General - A.S. Degree Major (18 units or more)

Public Safety Programs Department

This program prepares students for a career in the criminal justice system or private security services. The program will give students general knowledge and skills in theory, principles, and techniques of law enforcement agencies and private security services.

Learning Outcome(s):

1. Describe and Discuss the Criminal Justice process from investigation through trial to appeal.
2. Compare the three major components of the criminal justice system in the United States and summarize the major responsibilities of each.
3. Describe the Constitutional Rights protected by the 4th, 5th, 6th, and 8th Amendments to the U.S. Constitution and discuss how they relate/influence to the collection and use of evidence in a criminal investigation and proceeding.

Program Requirements		**Units:** 21.0
AJ 100	Introduction To Criminal Justice	3.0
AJ 101	Criminal Evidence	3.0

AJ 102	Criminal Procedures	3.0
AJ 103	Community and the Justice System	3.0
AJ 104	Criminal Law	3.0
AJ 106	Ethics in Administration of Justice	3.0
AJ 180	Criminology	3.0

Electives (Select 12 units)		**Units:** 12.0
AJ 153	Contemporary Issues in Homeland Security	3.0
FIRE 131	Introduction to Emergency Management	3.0
AJ 141	Enforcement Psychology	3.0
AJ 131	Juvenile Justice	3.0
SOC 110	Social Problems	3.0
AJ 65	Preparation for Law Enforcement	3.0
AJ 97	Topics in Administration of Justice	0.5-20.0
AJ 197	Topics In Administration Of Justice	0.5-6.0

Total: 33.0

Administration of Justice: Emergency Management for Public Safety Personnel - Certificate of Achievement (18 units or more)

Public Safety Programs

The Certificate of Achievement in Emergency Management for Public Safety Personnel prepares students for careers in protecting national security and safeguarding public safety in the face of evolving threats. Through a comprehensive curriculum, students gain knowledge and practical skills in emergency management, intelligence analysis, cybersecurity, and counterterrorism. This program emphasizes critical thinking, ethical decision-making, and effective communication within the context of homeland security operations. Students will learn to assess risks, develop response strategies, and implement security measures to address various

security threats, including terrorism, natural disasters, and cyber attacks. Internship opportunities provide hands-on experience in real-world settings, while faculty expertise and industry partnerships ensure relevance and currency in the field. This program also provides a pathway to further education in Homeland Security, Emergency Management, Cybersecurity, and related fields.

Learning Outcome(s):

1. Explain legal and ethical considerations as they apply to emergency management.

2. Identify relevant laws, regulations, policies, and procedures that govern homeland security operations.
3. Apply the principles and concepts of emergency management and planning.
4. Discuss emergency management, intelligence analysis, cybersecurity, and counter-terrorism.

Foundational Required Courses

Units: 15.0

CS 160	US-Mexican International Border	3.0
AJ 153	Contemporary Issues in Homeland Security	3.0
AJ 100	Introduction To Criminal Justice	3.0
AJ 151	Introduction to Homeland Security	3.0
AJ 152	Emergency Management and Planning for Public Safety Officials	3.0

Procedural Courses

Units: 3.0

Choose 1		3.0
AJ 101	Criminal Evidence	3.0
OR		
AJ 104	Criminal Law	3.0
OR		
AJ 102	Criminal Procedures	3.0
OR		
AJ 110	Basic Criminal Investigation	3.0
OR		
AJ 103	Community and the Justice System	3.0
OR		
AJ 106	Ethics in Administration of Justice	3.0
OR		
AJ 141	Enforcement Psychology	3.0

Total: 18.0

Administration of Justice: Modern Policing - A.S. Degree Major (18 units or more)

Public Safety Programs

Through a blend of theoretical knowledge and practical skills, students will explore contemporary issues in policing, community relations, and criminal justice reform. The curriculum includes topics such as ethical decision-making, cultural competency, and the use of technology in law enforcement. With comprehensive support services and flexible learning options, the program is structured to accommodate diverse learning needs and career aspirations. The Modern Policing Degree is more than an educational pathway—it's a commitment to creating a new generation of law enforcement professionals who are prepared to serve with integrity, empathy, and a deep understanding of the communities they protect.

Learning Outcome(s):

1. Identify and address issues related to cultural sensitivity, conflict resolution, hate crimes, prejudice, bias, and discrimination within the justice system.
2. Analyze the elements of various criminal offenses.
3. Explain fundamental US criminal procedures, principles, and Constitutional amendments.
4. Discuss the history and theories of the American justice system.
5. Analyze the relationship between law enforcement, courts, and corrections and how the American justice system operates.

AJ 100	Introduction To Criminal Justice	3.0
AJ 103	Community and the Justice System	3.0
AJ 104	Criminal Law	3.0
Choose 1: (Procedural Administration of Justice Courses)		3.0
AJ 131	Juvenile Justice	3.0
OR		
AJ 110	Basic Criminal Investigation	3.0
OR		
AJ 102	Criminal Procedures	3.0
OR		
AJ 101	Criminal Evidence	3.0
ART 164	Arts of Africa, Oceania and the Americas	3.0

CHDV 115	Child, Family, and Community	3.0
ENGL C1001	Critical Thinking and Writing	4.0
LS 145	Legal Ethics	3.0
PHIL 121	Introduction to Ethics	3.0
PSYC 120	Social Psychology	3.0
SOC 170	Introduction to Justice Studies	3.0
COMM C1000	Introduction to Public Speaking	3.0
SPCH 131	Intercultural Communication	3.0
Choose 1: (English Composition)		4.0
ENGL C1000	Academic Reading and Writing	4.0
OR		
ENGL C1000E	Academic Reading and Writing	4.0
OR		
ESL 110	College Composition for Non-Native Speakers	4.0
Choose 1: (Statistics)		3.0-4.0
SOC 180	Social Justice Statistics	3.0
OR		
STAT C1000	Introduction to Statistics	4.0
OR		
STAT C1000E	Introduction to Statistics	4.0
OR		
BUS 204	Quantitative Business Analysis	4.0
OR		
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0

Total: 47.0-48.0

Administrative Assistant - A.S. Degree Major/Cert. Achievement (18 units or more)

Business Administration Department

This program is designed to prepare the student for an entry level or higher office position and reflects significant changes in the level of preparedness in Digital Information Literacy that is required to enter business and industry.

Credit For Certified Administrative Professional (Cap) Certification: Individuals who hold the certification for Certified Professional Secretary (CPS) or Certified Administrative Professional (CAP) may apply to the Business Administration Department for units toward an Administrative Assistant Associate in Arts Degree. The units granted, with a grade of CR, will be posted to the student's transcript upon completion of the remaining AA degree requirements. Students must provide evidence of successful completion of the CPS or CAP certification.

Learning Outcome(s):

1. Apply computer and information literacy skills as well as data research and analysis.

2. Compile a portfolio of work samples that are appropriate for applying to entry-level or higher administrative positions.

Program Requirements		**Units:** 26.0
CSIT 105	Computer Concepts and Applications	3.0
BUS 166	Intermediate Keyboarding	2.0
BUS 110	Business Mathematics	3.0
ACCT 101	Bookkeeping	3.0
BUS 100	Introduction to Business	3.0
BUS 171	Word for Business - Advanced	1.0
BUS 176	Excel Intermediate	1.0
BUS 152	Social Media for Business	3.0
BUS 183	Artificial Intelligence (A.I.) for Business	3.0
BUS 173	Contemporary Job Search Techniques	1.0
BUS 205	Business Communication	3.0
		Total: 26.0

Adult Fitness and Health - Certificate of Achievement (18 units or more)

Health and Kinesiology Department

Training for fitness instructors and lifestyle educators in designing, implementing and managing a variety of health/fitness programs.

Learning Outcome(s):

1. Demonstrate knowledge and an understanding of physical activity and fitness and its role in the student's personal, educational development and life-long wellness.
2. Students will identify and determine preventative strategies for chronic disease including heart disease, stroke, cancer, and diabetes.

Program Requirements		**Units:** 22.0
HE 104	Emergency Medical Responder	3.0
CSIT 105	Computer Concepts and Applications	3.0
NUTR 165	Introduction to Human Nutrition	3.0
HE 100	Health Education and Fitness Dynamics	3.0
KINE 100	Introduction to Kinesiology	3.0
PSYC C1000	Introduction to Psychology	3.0
BIOL 211	Physiology	4.0

Group I (Select a minimum of 3 units)		**Units:** 3.0
CE 100	Cooperative Education	0.5
English Composition		4.0
ENGL C1000	Academic Reading and Writing	4.0
OR		
ENGL C1000E	Academic Reading and Writing	4.0
OR		
ESL 110	College Composition for Non-Native Speakers	4.0
Statistics		4.0
STAT C1000	Introduction to Statistics	4.0
OR		
STAT C1000E	Introduction to Statistics	4.0
COMM C1000	Introduction to Public Speaking	3.0

Group II (Select a minimum of 3 units)		**Units:** 3.0
PSYC 115	The Psychology of Personal Growth and Development	3.0
PSYC 210	Physiological Psychology	4.0
PSYC 125 / SOC 125	Human Sexuality	3.0
BIOL 210	Anatomy	4.0

Group III (Select a minimum of 1 unit)		**Units:** 1.0
KINE 125A	Aerobic Fitness Training Modes	1.0
KINE 125B	Anaerobic Fitness Training Modes	1.0
KINE 125C	Functional Fitness Training Modes	1.0
KINE 125D	Motor Fitness/Hand-Eye/Foot Skills	1.0
KINE 168A	Beginning Soccer	1.0
KINE 168B	Intermediate Soccer	1.0
KINE 168C	Advanced Soccer	1.0
KINE 170A	Team Sports - Baseball Strategies	1.0
KINE 170B	Team Sports- Baseball Biomechanics	1.0
KINE 170C	Team Sports- Basketball Strategies	1.0
KINE 170D	Team Sports- Basketball Biomechanics	1.0
KINE 170E	Team Sports- Football Strategies	1.0
KINE 170F	Team Sports- Football Biomechanics	1.0
KINE 170G	Team Sports- Soccer Strategies	1.0
KINE 170H	Team Sports- Soccer Biomechanics	1.0
KINE 170I	Team Sports- Softball Strategies	1.0
KINE 170J	Team Sports- Softball Biomechanics	1.0
KINE 170O	Team Sports- Wrestling Strategies	1.0
KINE 170P	Team Sports- Wrestling Biomechanics	1.0

Group IV - Health/Fitness (Select 1 course)		**Units:** 1.0-2.5

HE 100L	Health Performance Lab	1.0
KINE 128A	Wellness Modalities- Cardio	1.0
KINE 128B	Wellness Modalities-Muscular	1.0
KINE 128C	Wellness Modalities- Functional	1.0
KINE 128D	Wellness Modalities- Periodization	1.0
KINE 140A	Beginning Tennis: Techniques and Analysis	1.0
KINE 140B	Intermediate Tennis: Techniques and Analysis	1.0

KINE 140C	Advanced Tennis: Techniques and Analysis	1.0
KINE 150A	Beginning Weight Training	1.0
KINE 150B	Intermediate Weight Training- Strength Training for Total Fitness	1.0
KINE 150C	Advanced Weight Training- Power Lifting and Plyometrics Training	1.0

Total: 30.0-31.5

Advanced Geographic Information Systems - A.S. Degree Major/Cert. Achievement (18 units or more)

Earth, Space and Environmental Sciences Department

The Advanced Geographic Information Systems (GIS) Certificate program at Palomar College is designed to provide students with the technical and theoretical knowledge needed to pursue a successful career in the growing field of geospatial analysis. Through a combination of lectures, learning modules, case studies, internships, and projects, students will learn to manage, plan, and implement GIS projects.

Learning Outcome(s):

1. Demonstrate technical competencies in performing basic GIS analyses, and expanding the basic GIS program interface.
2. Evaluate and apply GIS concepts (including projection, topology, and overlay) that are needed to perform spatial analysis.
3. Explain the interoperability between GIS and other geospatial/ drafting technologies, including CAD systems, satellite sensors, utility engineering drawings, and environmental assessment reports.

Program Requirements — Units: 14.0

GEOG 120	Digital Earth: Introduction to Geographic Information Systems	4.0
GEOG 132	Database Management and Data Acquisition	4.0
GEOG 134	GIS Applications and Programming	2.0

GEOG 136	Intermediate ArcGIS: GIS Analysis	2.0
GEOG 138	GIS Internship	2.0

Specialized Concentration (Select 2 courses) — Units: 2.0-6.0

GEOG 140	Introduction to Remote Sensing and Drone Data Processing	3.0
GEOG 142	Environmental Applications of GIS	1.0
GEOG 143	Introduction to Cartography and Computer Mapping	1.0
GEOG 144	Internet Mapping and Application Development	3.0
GEOG 145	LiDAR Data Processing and GIS Integration	1.0

Electives (Select 1 course) — Units: 3.0

CSWB 120	JavaScript and PHP	3.0
CSIT 150	Introduction to SQL	3.0
CSIT 175	Python Programming	3.0
CSIT 165	R Programming	3.0
DT 101	AutoCAD I	3.0

Total: 19.0-23.0

Advertising and Marketing - Certificate of Achievement (8-15 units)

Business Administration Department

Students learn the fundamentals of advertising and marketing with a strong focus on creating promotional content for both traditional and digital media. Students gain the problem solving, communication, and creative skills needed for entry-level employment in a marketing-related job. This certificate is also useful to update or add digital expertise to current business skills.

Learning Outcome(s):

1. Students will gain general business skills that will prepare them for entry-level employment in marketing and/or advertising.
2. Students will be able to create marketing and advertising content that drives sales and business growth.

Program Requirements — Units: 12.0

BUS 155	Marketing	3.0
BUS 152	Social Media for Business	3.0
BUS 150	Advertising	3.0
Select one course		3.0
BUS 157	E-Commerce	3.0
OR		
FASH 125 / BUS 145	Retailing/Promotion	3.0

Total: 12.0

Air Conditioning, Heating and Refrigeration Entry Employment Ready - Certificate of Proficiency (Less than 18 units)

Trade & Industry Department

Air Conditioning, Heating, and Refrigeration program is designed to provide students with the knowledge and hands-on learning skills in the air conditioning and refrigeration industry. Applications of theory, principles and techniques will include system components and their interrelated functions, safety, procedures, tools, and equipment to prepare the student for entry level employment in the HVAC field.

Program Requirements   **Units:** 10.0

ACR 101	Air Conditioning, Heating, and Refrigeration: Mechanical	3.0
ACR 102	Air Conditioning, Heating, and Refrigeration: Electrical	3.0
		3.0
ACR 103	Air Conditioning, Heating, and Refrigeration: Heating	3.0
OR		
ACR 110	Advanced Air Conditioning, Heating and Refrigeration	3.0
ACR 105	Refrigerant Management and Recovery	1.0

Total: 10.0

Air Conditioning/Heating/Refrigeration - A.S. Degree Major (18 units or more)

Trade & Industry Department

Air Conditioning, Heating, and Refrigeration program is designed to provide students with the knowledge and hands-on learning skills in the air conditioning and refrigeration industry. Applications of theory, principles and techniques will include system components and their interrelated functions, safety, procedures, tools and equipment. Proper testing and evaluation skills to trouble shoot and perform repairs as required. The program also provides retraining and upgrading of skills for maintenance technicians, including EPA certification.

Learning Outcome(s):

1. After the appropriate lectures and labs, the student will be able to apply, identify, define, how to properly install air conditioning, heating, and refrigeration systems to achieve the best, most efficient, system operation.
2. After the appropriate lectures the student will score 70% or above on the safety test.

Required Courses   **Units:** 25.0-26.0

ACR 101	Air Conditioning, Heating, and Refrigeration: Mechanical	3.0
ACR 102	Air Conditioning, Heating, and Refrigeration: Electrical	3.0
ACR 103	Air Conditioning, Heating, and Refrigeration: Heating	3.0
ACR 105	Refrigerant Management and Recovery	1.0
ACR 110	Advanced Air Conditioning, Heating and Refrigeration	3.0
ACR 112	HVAC Controls and Automation	3.0
IT 108 / WELD 108	Technical Mathematics	3.0
CE 100	Cooperative Education	3.0-4.0
WELD 160	Metal Layout for Fabrication	3.0

Total: 25.0-26.0

Air Conditioning/Heating/Refrigeration - Certificate of Achievement (12-17 units)

Trade & Industry Department

Air Conditioning, Heating, and Refrigeration program is designed to provide students with the knowledge and hands-on learning skills in the air conditioning and refrigeration industry. Applications of theory, principles and techniques will include system components and their interrelated functions, safety, procedures, tools, and equipment. Proper testing and evaluation skills to trouble shoot and perform repairs as required. The program also provides retraining and upgrading of skills for maintenance technicians, including EPA certification.

Program Requirements   **Units:** 16.0

ACR 101	Air Conditioning, Heating, and Refrigeration: Mechanical	3.0
ACR 102	Air Conditioning, Heating, and Refrigeration: Electrical	3.0
ACR 103	Air Conditioning, Heating, and Refrigeration: Heating	3.0
ACR 105	Refrigerant Management and Recovery	1.0
ACR 110	Advanced Air Conditioning, Heating and Refrigeration	3.0
ACR 112	HVAC Controls and Automation	3.0

Total: 16.0

Alcohol and Other Drug Studies - A.S. Degree Major/Cert. Achievement (18 units or more)

Behavioral Sciences Department

The program provides students with academic training and field practicum experience for entry-level employment in the delivery of alcohol and other drug treatment services in agency settings addressing those experiencing substance use disorders. It serves as preparation for the California state examinations as a certified

substance use disorders counselor through the state approved credentialing organizations.

Learning Outcome(s):

1. Students will apply the formal laws and ethical standards that govern professional ethics in substance abuse counseling.
2. Students will apply the 12 Core Functions (Screening, Intake, Orientation, Assessment, Treatment Planning, Counseling, Case Management, Crisis Intervention, Client Education, Referral, Report and Record Keeping, and Consultation with Professionals) in a clinical setting.
3. Students will communicate the 12 Core Functions of substance abuse counseling.

Program Requirements		**Units:** 34.0-36.0
AODS 150 / PSYC 150 / SOC 150	Introduction to Alcohol and Other Drug Studies	3.0
AODS 155 / SOC 155 / PSYC 155	The Physiology and Pharmacology of Psychoactive Drugs	3.0

AODS 160	Prevention, Intervention, and Education	3.0
AODS 165	Law and Ethics	3.0
AODS 250	Group Leadership and Process	3.0
AODS 255	Case Management	3.0
AODS 260	Chemical Dependency Family Counseling	3.0
AODS 270	Co-Occurring Disorders	3.0
AODS 298	Directed Field Experience I	3.0
AODS 298L	Directed Field Experience I	2.0
AODS 299	Directed Field Experience II	3.0
AODS 299L	Directed Field Experience II Lab	2.0

Select One Course (3 Units)		**Units:** 3.0
PSYC C1000	Introduction to Psychology	3.0
SOC 100	Introduction to Sociology	3.0
SOC 110	Social Problems	3.0

Total: 37.0-39.0

American Indian Studies - Certificate of Achievement (18 units or more)

American Indian Studies Department

The Certificate in American Indian Studies provides cultural knowledge and insight recognized by prospective employers such as state, federal, and tribal government agencies. Earning an AIS Certificate affords increased employment opportunities in such fields as archaeology, art, museums, education, social services, and resource management.

Learning Outcome(s):

1. Describe the existence and impact of American Indian/Alaskan Native cultural arts on contemporary and global societies.
2. Critically examine the cultural, historical and political diversity of American Indian/Alaskan Natives who have sustained their diverse cultural/geographic landscapes in the face of Western development.
3. Explain and analyze the social, political, and legal developments that have shaped American Indian/Alaskan Native government(s) and legal status, with the overarching goal toward sovereignty in United States and will be able to differentiate federal, state, and tribal levels in American Indian/Alaskan Native affairs.

Program Requirements		**Units:** 15.0
AIS 100	Introduction to American Indian Studies	3.0
Choose One Course		3.0
AIS 101	History of American Indian Nations from Creation through the Present	3.0
OR		

AIS 102	The American Indian and the U.S. Political System	3.0
AIS 105	History of Native American Arts	3.0
AIS 125	American Indians Today	3.0
AIS 165	Native Women in the Americas	3.0

Electives - Select One Course from the following or any course not taken from the Program Requirement Category		**Units:** 3.0
AIS 104	The Music of Native America	3.0
AIS 110	History of the Plains Indian	3.0
AIS 115	A History of Southwest Indians	3.0
AIS 130 / ANTH 130	Prehistoric Cultures of North America	3.0
AIS 135	California Indian Arts	3.0
AIS 140 / ANTH 140	The Original Californians	3.0
AIS 145	American Indian Literature	3.0
AIS 150	American Indian Philosophy and Religion	3.0
AIS 107A	Elementary Luiseno IA	3.0
AIS 166A	Elementary Cahuilla IA	3.0
AIS 180A	Uto-Aztecan Languages of San Diego County IA	3.0

Total: 18.0

American Sign Language/English Translation & Interpreting Studies - A.S. Degree Major/ Cert. Achievement (18 units or more)

Speech, Forensics, ASL Department

Preparation courses (for students not already competent in signing): ASL 100, 100L, 101, 101L, 105, 205, 205L, 206, and 206L.

This program provides an integrated series of coursework in American Sign Language (ASL) and ASL/English translation and interpreting studies to prepare students for entry-level positions in

the Deaf community. Students are introduced to models of discourse analysis and theoretical models of translation and interpretation. Emphasis is on the practical application of models and knowledge as they develop skills in ASL and English, translation and interpretation, cultural competence, human relations, ethical decision-making, social

justice and equity, and professionalism. Extensive service learning is an integral aspect of this program.

American Sign Language/English interpreters are in demand locally, regionally, and nationally. A highly qualified American Sign Language/English interpreter who pursues higher education opportunities and continued skill development will enjoy a rewarding, highly flexible career. This profession is expanding, and continued growth in the job market is projected.

Upon successful completion of this program, students may elect to take a proficiency exam to determine eligibility for entry-level employment as ASL/ English interpreters.

Learning Outcome(s):

1. Unrehearsed Interpretation: ASL to English Narrative Successful students will demonstrate the ability to interpret an unrehearsed narrative from sign language into spoken English.
2. Unrehearsed Interpretation: English to ASL Narrative Successful students will demonstrate the ability to interpret an unrehearsed narrative from spoken English into sign language.

Program Requirements   **Units:** 33.5

ASL 110	Awareness of Deaf Culture	3.0
ASL 115	Perspectives on Deafness	3.0
ASL 208	Interpreting as a Profession	3.0
ASL 210	Discourse Analysis	4.0
ASL 211	Interpreting II	4.0
ASL 215	Interpreting III	4.0
ASL 216	Interpreting IV	4.0
ASL 220	Specialized Settings Of Interpreting	3.0
ASL 298	Fieldwork in Interpreting	1.5
English Composition		4.0
ENGL C1000	Academic Reading and Writing	4.0
OR		
ENGL C1000E	Academic Reading and Writing	4.0
OR		
ESL 110	College Composition for Non-Native Speakers	4.0

Total: 33.5

Anthropology - AA-T Transfer Major (18 units or more)

Behavioral Sciences Department

The Associate in Arts in Anthropology for Transfer provides students with the holistic study of humanity which prepares them for transfer into the CSU system for completion of a Baccalaureate degree program in Anthropology. Depending on the classes selected, students may receive humanities, multicultural, and laboratory or non-laboratory science credit on general education patterns for both the UC and CSU systems. The Associate in Arts in Anthropology for Transfer emphasizes the four-field approach central to American Anthropology in which students are introduced to the holistic integration of the biological, cultural, linguistic, and material cultural approaches to the study of human beings. Through their courses in Biological Anthropology program students will gain a basic understanding of the evidence, patterns, and genetic basis, of both human and primate evolution as well as the biological underpinnings of human culture. Cultural Anthropology coursework explores the universal patterns of human cultural organization, the origins and function of the arts and religion, the central role of kinship, the nature of gender, and the dynamics of cultural evolution. The structure and complexity of human language and its critical role in the human experience is the subject of Anthropological Linguistics courses. A wide range of Archaeology courses are also available by which students may gain the tools to explore past and present societies thorough knowledge of the production, use, and discard of human material culture.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
2. The California General Education Transfer Curriculum (Cal-GETC)
3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.

Learning Outcome(s):

1. Differentiate between cultural relativism and ethnocentrism and examine the importance of cultural relativism.
2. Explain the significance of holism in anthropological methodology and its impact on understanding human diversity.

Program Requirements   **Units:** 9.0-10.0

Biological Anthropology		3.0-4.0
ANTH 100	Introduction to Biological Anthropology	3.0
OR		
ANTH 101	Introduction to Biological Anthropology	4.0
ANTH 105	Introduction to Cultural Anthropology	3.0
ANTH 110	Introduction to Archaeology	3.0

List A: Select one course (3.0-4.0 units). ANTH 100L will not satisfy List A (See List B for details on how to use ANTH 100L)   **Units:** 3.0-4.0

ANTH 100L	Biological Anthropology Laboratory	1.0
ANTH 107	Language and Culture	3.0
ANTH 135	Magic, Witchcraft, and Religion	3.0
AIS 100	Introduction to American Indian Studies	3.0
Statistics		4.0
STAT C1000	Introduction to Statistics	4.0
OR		
STAT C1000E	Introduction to Statistics	4.0
OR		
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0

List B: Select one to two courses (3.0-5.0 units) from any List A course not already used or from List B. Students choosing ANTH 100L must complete an additional 3.0-4.0 unit course from any List A course not already used or from List B.   **Units:** 3.0-5.0

Sciences and Science Methods		4.0
BIOL 210	Anatomy	4.0
OR		
Physical Geology		4.0
GEOL 100	Physical Geology	3.0
AND		
GEOL 100L	Geology Laboratory	1.0
OR		
GEOG 120	Digital Earth: Introduction to Geographic Information Systems	4.0
OR		
PSYC 230	Research Methods in Psychology	4.0

List C: Select one course (minimum of 3.0 units) or choose one course (minimum of 3.0 units) from List A or B not already used. ANTH 100L does not satisfy List C.   **Units: 3.0**

ANTH 103	Bones: Human Osteology	3.0
ANTH 115	People and Cultures of the World	3.0

ANTH 120	Archaeological Excavation	3.0
ANTH 121	Applying Archaeology	3.0
ANTH 125	Evolution, Science and Religion	3.0
ANTH 126	Cultures of Africa	3.0
AIS 130 / ANTH 130	Prehistoric Cultures of North America	3.0
ANTH 137	Medical Anthropology: Culture, Illness and Healing	3.0
AIS 140 / ANTH 140	The Original Californians	3.0
CS 155 / ANTH 155	Ancient Civilizations of Meso-America	3.0
ANTH 205	Prehistoric Archaeological Excavation	3.0
ANTH 206	Historical Archaeological Excavation	3.0
ANTH 210	Archaeological Surveying	3.0
ANTH 215	Archaeological Laboratory Analysis	3.0
ANTH 220	Advanced Archaeological Surveying	3.0
ANTH 225	Historical Archaeology	3.0

Total: 18.0-22.0

Apprenticeship-Acoustical Installer - A.S. Degree Major/Cert. Achievement (18 units or more)

Occupational and Noncredit Programs Department

A three-year apprenticeship program. Applicants for this program should be directed to the Carpenters Joint Apprenticeship and Training Committee for Southern California, San Diego Carpenters Training Center, 8595 Miralani Drive, San Diego, CA 92126. Telephone (858) 621-2667.

Program Requirements   **Units: 26.5-0.0**

AP DL 701 / AP AC 701 / AP PL 701	Orientation	1.5-0.0
AP DL 702 / AP AC 702 / AP PL 702	Safety and Health Certifications	1.5-0.0
AP DL 703 / AP AC 703 / AP PL 703	Printreading	1.5-0.0

AP AC 704 / AP DL 704	Advanced Printreading	1.5-0.0
AP AC 705	Acoustical Ceilings	1.5-0.0
AP AC 706	Standard Acoustical Grids	1.5-0.0
AP AC 707	Suspended Ceilings	1.5-0.0
AP AC 708	Soffits	1.5-0.0
AP AC 709	Prefab/Sound Panels	1.5-0.0
AP AC 710	Concealed/Glue-Up/Staple-Up System	1.5-0.0
AP AC 711	Designer and Specialty Trims	1.5-0.0
AP AC 712	Metal Pan and Security Systems	1.5-0.0
AP AC 713	Advanced Acoustical Installation	1.5-0.0
AP AC 714	Advanced Acoustical Layout	1.5-0.0
AP AC 715	Drywall Acoustical Ceilings	1.5-0.0
AP WE 712	Drywall/Acoustical Work Experience	4.0-0.0

Total: 26.5-0.0

Apprenticeship-Carpentry - A.S. Degree Major/Cert. Achievement (18 units or more)

Occupational and Noncredit Programs Department

A four-year carpentry apprenticeship program approved by the California Division of Apprenticeship Standards. The apprenticeship combines on-the-job and classroom training to become a drywall/lather journey worker. Applicants for this program should be directed to the Carpenters Joint Apprenticeship and Training Committee for Southern California, San Diego Carpenters Training Center, 8595 Miralani Drive, San Diego, CA 92126. Telephone (858) 621-2667.

Learning Outcome(s):

1. Palomar College does not assess Program Student Learning Outcomes for the Carpentry Apprenticeship. The San Diego Carpentry Training Center uses a variety of competency based assessments in the apprenticeship.

Program Requirements   **Units: 7.0**

AP WE 711	Carpentry Work Experience	4.0
AP C 701	Orientation	1.5
AP C 702	Safety and Health Certification	1.5

Electives (Select 14 courses)   **Units: 21.0**

AP WE 730	Carpentry Work Experience	4.0
AP C 703	Printreading	1.5
AP C 704	Advanced Printreading	1.5
AP C 705	Foundation and Flatwork	1.5
AP C 707	Tilt-Up Panel Construction	1.5

AP C 708	Wall Forming	1.5
AP C 709	Gang Forms/Columns	1.5
AP C 710	Patented Forming Systems	1.5
AP C 712	Column Forms	1.5
AP C 713	Beam and Deck Forming	1.5
AP C 714	Basic Commercial Framing	1.5
AP C 716	Commercial Floor Framing	1.5
AP C 717	Basic Stairs	1.5
AP C 718	Advanced Stairs	1.5
AP C 719	Exterior Finish Details	1.5
AP C 721	Basic Roof Framing	1.5
AP C 723	Basic Metal Framing	1.5
AP C 725	Transit Level/Laser	1.5
AP C 726	Bridge Construction	1.5
AP C 727	Stair and Ramp Forming	1.5
AP C 728	Stair Trim	1.5
AP C 729	Cabinet Millwork and Assembly	1.5
AP C 730	Cabinet Installation	1.5
AP WE 731	Carpentry Work Experience and Team Dynamics	4.0
AP WE 732	Carpentry Work Experience and Organizational Culture	4.0
AP WE 733	Carpentry Work Experience and Industry Exploration	4.0
AP C 735	Molding and Trim	1.5
AP C 736	Plastic Laminates	1.5
AP C 737	Door and Door Frames	1.5
AP C 739	Door and Door Hardware	1.5
AP C 745	Commercial Fixtures	1.5
AP C 747	Basic Suspended Scaffold	1.5
AP C 748	Advanced Suspended Scaffold	1.5
AP C 749	Basic Systems Scaffold	1.5
AP C 750	Intermediate Systems Scaffold	1.5

AP C 751	Advanced Systems Scaffold	1.5
AP C 752	Basic Frame Scaffold	1.5
AP C 753	Intermediate Frame Scaffold	1.5
AP C 754	Advanced Frame Scaffold	1.5
AP C 755	Basic Tube and Clamp Scaffold	1.5
AP C 756	Scaffold in Confined Spaces	1.5
AP C 757	Specialty Scaffold Applications	1.5
AP C 758	Scaffold Reshoring	1.5
AP C 761	Basic Wall Framing	1.5
AP C 764	Abutments	1.5
AP C 770	Green Building and Weatherization	1.5
AP C 771	Intermediate Commercial Framing	1.5
AP C 772	Solar Installer Level 1	1.5
AP C 773	Water Treatment Facilities	1.5
AP DL 774 / AP AC 774 / AP PL 774 / AP C 774	Tool & Equipment Applications	1.5
AP C 765	Rigging	1.5
AP C 775	Store Front Installations	1.5
AP C 776	Total Station I	1.5
AP C 777	Welding Fabrication	1.5
AP C 778	Solid & Stone Surfaces	1.5
AP C 779	Exit & Electrical Security Devices	1.5
AP C 780	Fitting Rooms/Partitions	1.5
AP C 781	Industrial Scaffolding	1.5
AP C 782	Bridge Falsework	1.5
AP PL 783 / AP C 783	Crew Lead Training	1.5
AP C 797	Carpentry Topics	1.5

Total: 28.0

Apprenticeship-Drywall/Lather - A.S. Degree Major/Cert. Achievement (18 units or more)

Occupational and Noncredit Programs Department

A three-year drywall/lather apprenticeship program approved by the California Division of Apprenticeship Standards. The apprenticeship combines on-the-job and classroom training to become a drywall/lather journey worker. Applicants for this program should be directed to the Carpenters Joint Apprenticeship and Training Committee for Southern California, San Diego Carpenters Training Center, 8595 Miralani Drive, San Diego, CA 92126. Telephone (858) 621-2667.

Learning Outcome(s):

1. Palomar College does not assess Program Student Learning Outcomes for the Drywall/Lather Apprenticeship. The San Diego Carpentry Training Center uses a variety of competency based assessments in the apprenticeship.

Program Requirements   **Units:** 17.5

AP WE 712	Drywall/Acoustical Work Experience	4.0
AP DL 701 / AP AC 701 / AP PL 701	Orientation	1.5
AP DL 702 / AP AC 702 / AP PL 702	Safety and Health Certifications	1.5
AP DL 703 / AP AC 703 / AP PL 703	Printreading	1.5
AP DL 705	Basic Lathing	1.5
AP DL 706	Framing Ceilings and Soffits	1.5
AP DL 707	Basic Metal Framing	1.5
AP DL 708	Framing Suspended Ceilings	1.5
AP DL 709	Framing Curves and Arches	1.5
AP DL 710	Light Gage Welding - AWS - A	1.5

Electives (Select 3 courses)   **Units:** 3.5-7.0

AP AC 705	Acoustical Ceilings	1.5
AP AC 706	Standard Acoustical Grids	1.5
AP AC 711	Designer and Specialty Trims	1.5
AP C 739	Door and Door Hardware	1.5
AP DL 774 / AP AC 774 / AP PL 774 / AP C 774	Tool & Equipment Applications	1.5

AP AC 704 / AP DL 704	Advanced Printreading	1.5
AP DL 712	Basic Hand Finishing	1.5
AP DL 713	Drywall Acoustical Ceilings	1.5
AP DL 714	Door/Door Frames	1.5
AP DL 715	Exterior Insulation Finish Systems (EIFS)	1.5
AP DL 716	Firestop/Fireproofing Procedures	1.5
AP DL 717	Free-Form Lathing	1.5
AP DL 718	Automatic Finishing Tools	1.5
AP DL 720	Drywall Installation/Finish Trims	1.5
AP DL 721	Advanced Hand Finishing	1.5

AP DL 722	Advanced Automatic Finishing Tools	1.5
AP DL 723	Advanced Lathing	1.5
AP DL 724	Ceiling and Soffit Finishing	1.5
AP DL 726	Reinforced Substrate Installations	1.5
AP DL 728	Drywall Applications	1.5
AP DL 729	Advanced Metal Framing	1.5
AP DL 730	Air, Moisture & Thermal Barriers	1.5
AP DL 731	Drywall Repair and Finishing	1.5
AP DL 732	Light Gage Welding AWS (B)	1.5
AP DL 797	Drywall/Lather Topics	1.0

Total: 21.0-24.5

Apprenticeship-Inside Wireman - A.S. Degree Major/Cert. Achievement (18 units or more)

Occupational and Noncredit Programs Department

A five-year apprenticeship program. Study of technical course development and delivery techniques for the electrical trade, utilizing classroom-proven techniques. The student will familiarize him/herself with classroom management, testing and assessment techniques, curriculum development and material presentation based on industry-standard and college level instructional methodologies. Applications for this program should be directed to the San Diego Electrical Training Trust, 4675 Viewridge Avenue, Suite D, San Diego, CA 92123. Telephone (858) 569-6633, ext. 111.

Program Requirements **Units:** 40.0

AP IW 701	Introduction to the Electrical Trade	4.0
AP IW 702	Electrical Theory, Practice and Blueprint Reading	4.0
AP IW 703	Electrical Theory and Practices AC	4.0

AP IW 704	Transformer, Motors, and Motor Controls	4.0
AP IW 705	Special Electrical Systems	4.0
AP IW 706	Specialized Electrical Applications	4.0
AP WE 713	Electrician Work Experience	16.0

Electives (Select 16 units) **Units:** 16.0

AP IW 713	Electrical Project Supervision	4.0
AP IW 714	Electrical Certification Preparation	4.0
AP IW 716	Photovoltaics, Electric Vehicle Charging Stations, Battery Storage, and Microgrid Systems	4.0
AP IW 725	Lighting Control Systems and Safety	4.0
AP IW 726	Electrical Construction Practices	4.0

Total: 56.0

Apprenticeship-Intelligent Transportation Systems - A.S. Degree Major/Cert. Achievement (18 units or more)

Occupational and Noncredit Programs Department

Intelligent Transportation Systems (ITS) are advanced applications which aim to provide innovative services relating to different modes of transport and traffic management. It enables various users to be better informed and make safer, more coordinated, and 'smarter' use of transport networks. ITS systems vary in technology from basic management systems such as car navigation; traffic signal control systems; container management systems; variable message signs; automatic number plate recognition or speed cameras to monitor applications, such as security CCTV systems; and to more advanced applications that integrate live data and feedback from a number of other sources, such as parking guidance and information systems; weather information; and bridge de-icing (US deicing) systems. This apprenticeship program has been developed to educate students in all aspects of this emerging market. Students will begin by learning the basic fundamentals of these systems with emphases on real world applications through both classroom and hands on lab instruction. As students' progress through the program they will be introduced to more complex concepts that will prepare them with the skills necessary to gain employment in this growth sector. Students will be exposed to fundamental electrical concepts such as Direct and Alternating Current Systems, Blueprints, Fiber Optics, Closed Circuit Television, Traffic Signal Systems, Traffic Control and Networking Systems. They will also learn the skills necessary to design, construct, install, and troubleshoot these complex systems.

After the Four year program is complete they will be equipped to enter their career as an Intelligent Transportation Systems Specialist.

Program Requirements **Units:** 48.0

AP IT 701	Introduction to the Intelligent Transportation Systems Trade and Industry	4.0
AP IT 702	Electrical Theory, Applications and Blueprint Reading	4.0
AP IT 703	DC circuits, Codeology, and Underground Installations	4.0
AP IT 704	AC Theory, Blueprints Maintenance and Trouble shooting	4.0
AP IW 705	Special Electrical Systems	4.0
AP IT 706	Alternative Energy Systems, CCTV , Fiber Optics	4.0
AP IT 707	Motor Control, Safety Training and Certifications	4.0
AP IT 708	Electrical Certification and Project Supervision	4.0
AP WE 713	Electrician Work Experience	16.0

Total: 48.0

Apprenticeship-Plasterer - A.S. Degree Major/Cert. Achievement (18 units or more)

Occupational and Noncredit Programs Department

A four-year apprenticeship program. Applicants for this program should be directed to the Carpenters Joint Apprenticeship and Training Committee for Southern California, San Diego Carpenters Training Center, 8595 Miralani Drive, San Diego, CA 92126. Telephone (858) 621-2667.

Program Requirements   **Units: 25.5**

AP DL 701 / AP AC 701 / AP PL 701	Orientation	1.5
AP DL 702 / AP AC 702 / AP PL 702	Safety and Health Certifications	1.5
AP DL 703 / AP AC 703 / AP PL 703	Printreading	1.5
AP DL 705	Basic Lathing	1.5
AP PL 706	Basic Plastering	1.5
AP PL 707	Exterior Plastering	1.5
AP PL 708	DOT and Screed Techniques	1.5
AP PL 709	Interior Plastering	1.5
AP PL 710	Finish Applications	1.5
AP PL 711	Ornamental Plastering	1.5
AP PL 713	Theme Plastering	1.5
AP DL 715	Exterior Insulation Finish Systems (EIFS)	1.5
AP DL 716	Firestop/Fireproofing Procedures	1.5
AP PL 717	Plastering Equipment Application	1.5
AP PL 718	Plastering Equipment	1.5
AP DL 774 / AP AC 774 / AP PL 774 / AP C 774	Tool & Equipment Applications	1.5
AP PL 783 / AP C 783	Crew Lead Training	1.5

Total: 25.5

Apprenticeship-Sheet Metal - A.S. Degree Major/Cert. Achievement (18 units or more)

Occupational and Noncredit Programs Department

A Sheet Metal apprenticeship program approved by the California Division of Apprenticeship Standards. The apprenticeship combines on-the-job and classroom training to become a sheet metal journey worker. Applicants for this program should be directed to the San Diego Sheet Metal Joint Apprenticeship and Training Committee, 4596 Mission Gorge Place, San Diego, CA 92120. Telephone (619) 265-2758.

Learning Outcome(s):

1. Palomar College does not assess Program Student Learning Outcomes for the Sheet Metal Apprenticeship. The San Diego Sheet Metal Training Center uses a variety of competency based assessments in the apprenticeship.

Program Requirements   **Units: 43.0**

AP WE 710	Sheet Metal Work Experience	4.0
AP SM 701	Core-I	4.0
AP SM 702	Core-II	4.0
AP SM 703	Core-III	4.0
AP SM 704	Core-IV	4.0
AP SM 711	HVAC I	4.0
AP SM 705	Sheet Metal Welding	3.0
AP SM 706	Plans and Specifications	4.0
AP SM 709	Foreman and Project Management Training	4.0
AP SM 710	Architectural Application	4.0
AP SM 712	HVAC II	4.0

Total: 43.0

Apprenticeship-Sound Technician - A.S. Degree Major/Cert. Achievement (18 units or more)

Occupational and Noncredit Programs Department

A four-year apprenticeship program. Students will work in the field during the day and attend class in the evenings. Each apprentice is paid for field work with regularly scheduled pay increases based on required work hours and completion of classroom instruction. Upon completion of this program, students will receive a certificate of completion from the California Division of Apprenticeship Standards and Journeyman Sound Technician status in the I.B.E.W. All students must be indentured Sound Technical apprentices to be eligible for the course. Interested applicants from San Diego/Imperial counties should apply to the San Diego Electrical Training Trust, 4675 Viewridge Avenue, Suite D, San Diego, CA 92123. Telephone: (858) 569-6322, ext. 111.

Program Requirements   **Units: 44.0**

AP SC 701	Introduction to the Sound and Communication Trade Industry	4.0
AP SC 702	Electrical Theory and Practices DC	4.0
AP SC 703	Electrical Theory and Practices AC	4.0
AP SC 704	Semiconductor Electronics	4.0
AP SC 705	Introduction to Signaling Devices and Systems	4.0
AP SC 706	Management/Alarms/Codes/Circuits	4.0
AP SC 707	Certification Preparation and Networking System Applications	4.0
AP WE 713	Electrician Work Experience	16.0

Total: 44.0

Archaeological Field Technician - Certificate of Achievement (18 units or more

Behavioral Sciences Department

The Archaeological Field Certificate program provides the student with basic training for an entry level position as an archaeological field or laboratory technician. Archaeological technicians are employed by Cultural Resource Management Firms, Environmental Firms, and various agencies throughout the United States.

Learning Outcome(s):

1. Students examine archaeological data in an anthropological context through knowledge obtained by completion of basic coursework in biological anthropology, cultural anthropology, and world prehistory (archaeology).
2. Students demonstrate field navigation, site recognition, site recording, mapping, and site form completion skills.
3. Students demonstrate basic excavation technique, field data recording, and in-field artifact processing skills.
4. Students demonstrate a working knowledge of initial artifact processing, classification of artifact types, general analytical approaches, and data input techniques appropriate for archeology laboratories.

Program Requirements		**Units:** 21.0
ANTH 105	Introduction to Cultural Anthropology	3.0
ANTH 110	Introduction to Archaeology	3.0
ANTH 120	Archaeological Excavation	3.0
ANTH 121	Applying Archaeology	3.0
ANTH 210	Archaeological Surveying	3.0
ANTH 215	Archaeological Laboratory Analysis	3.0
Choose one of the following three courses		3.0
AIS 100	Introduction to American Indian Studies	3.0
OR		
AIS 101	History of American Indian Nations from Creation through the Present	3.0
OR		
AIS 130 / ANTH 130	Prehistoric Cultures of North America	3.0

Electives: Choose one of the following three courses		**Units:** 3.0-4.0
GEOG 120	Digital Earth: Introduction to Geographic Information Systems	4.0
ANTH 225	Historical Archaeology	3.0
ANTH 103	Bones: Human Osteology	3.0
		Total: 24.0-25.0

Archaeology - A.A. Degree Major (18 units or more)

Behavioral Sciences Department

Provides the student with in-depth training that will enhance employment opportunities as a professional archaeologist as well as providing a solid foundation for a B.A. and advanced degrees in Anthropology/Archaeology.

Learning Outcome(s):

1. Demonstrate field navigation, site recognition, site mapping, and site recording skills.
2. Demonstrate artifact classification, laboratory processing, analytical approaches, and data input techniques.
3. Demonstrate archival research skills, historic artifact analysis, and interpretation of historic site function(s).
4. Demonstrate basic excavation techniques, field data recording, and in-field artifact processing.
5. Integrate archaeology in anthropological context by completing basic coursework in biological anthropology, cultural anthropology, and world prehistory (archaeology).
6. Examine the importance of American Indian concerns within the field of archaeology.

Program Requirements		**Units:** 30.0
ANTH 100	Introduction to Biological Anthropology	3.0
ANTH 103	Bones: Human Osteology	3.0
ANTH 105	Introduction to Cultural Anthropology	3.0
ANTH 110	Introduction to Archaeology	3.0
ANTH 120	Archaeological Excavation[*]	3.0
ANTH 121	Applying Archaeology	3.0
ANTH 210	Archaeological Surveying[*]	3.0
ANTH 215	Archaeological Laboratory Analysis[*]	3.0
ANTH 225	Historical Archaeology[*]	3.0
Elective (select one of the following three courses)		
AIS 100	Introduction to American Indian Studies	3.0
AIS 101	History of American Indian Nations from Creation through the Present	3.0
AIS 130 / ANTH 130	Prehistoric Cultures of North America	3.0

Electives (Select 3 Units)		**Units:** 3.0
ANTH 100L	Biological Anthropology Laboratory	1.0
ANTH 107	Language and Culture	3.0
ANTH 126	Cultures of Africa	3.0
ANTH 135	Magic, Witchcraft, and Religion	3.0
CS 155 / ANTH 155	Ancient Civilizations of Meso-America	3.0
ANTH 205	Prehistoric Archaeological Excavation	3.0
ANTH 206	Historical Archaeological Excavation	3.0
GEOG 120	Digital Earth: Introduction to Geographic Information Systems	4.0
GEOL 100	Physical Geology	3.0
		Total: 33.0

Architectural Building Information Modeling, B.I.M - A.S. Degree Major/Cert. Achievement (18 units or more)

Design and Manufacturing Technologies Department

The Building Information Modeling (BIM) program is designed to prepare students for dynamic roles in architectural and interior design offices, focusing on integrating and coordinating building information modeling technology. Coordinate structural, electrical, and mechanical designs and determine a method of presentation to represent building plans graphically. Furthermore, follow building codes, zoning, space and site requirements, and other technical documents and reports determining their effect on architectural designs.

Learning Outcome(s):

1. Apply the principles of structural and building material applications.
2. Develop the software skills required for employment in the architecture industry.
3. Analyze, document, and draft construction drawings.

Program Requirements		Units: 18.0
ARCH 105	Basic Architectural Drafting	3.0
Select One		3.0
ARCH 135	Architectural Materials and Methods of Construction	3.0
OR		
ARCH 295	Architectural Internship	3.0
ID 150 / ARCH 150	Beginning Computer Aided Drafting	3.0
ARCH 200	Advanced Visualization in Design	3.0
ARCH 202	Introduction to Revit Architecture	3.0
ARCH 204	Advanced Revit	3.0
		Total: 18.0

Architecture - A.S. Degree Major/Cert. Achievement (18 units or more)

Design and Manufacturing Technologies Department

This coursework prepares students for transfer into a university architectural program. Emphasis is on current architectural and construction practices, fundamental design skills, sustainable building guidelines, and transfer preparation. Students should review specific course requirements and transfer agreements with their architectural instructor and transfer counselor. General education course requirements such as mathematics, physics, etc. will vary depending upon the specific university program.

Learning Outcome(s):

1. Apply architectural history and theory to select design principles
2. Apply problem-solving skills to create solutions for a series of design challenges.
3. Analyze, document, and draft construction drawings.
4. Examine the principles of structural and building material applications.

Program Requirements — **Units:** 27.0

ARCH 105	Basic Architectural Drafting	3.0
Elective (select one of the following two courses)		3.0
ARCH 120	Architectural History	3.0
OR		
ARCH 121	Multicultural Architectural History	3.0
ARCH 122	History of Architectural Theory	3.0
ARCH 135	Architectural Materials and Methods of Construction	3.0
ARCH 145	Designing for Communication and Presentation	3.0
ARCH 215	Design Studio IA	3.0
ARCH 216	Design Studio IB	3.0
ARCH 217	Design Studio IIA	3.0
ARCH 218	Design Studio IIB	3.0
		Total: 27.0

Art History - AA-T Transfer Major (18 units or more)

Art Department

The Associate in Arts in Art History for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in Art History. In addition, completing the course work will meet the humanities competency requirement at many colleges and universities. Students may receive humanities credit on general education patterns for both the CSU and UC systems. It will also provide instruction for students seeking visual analytic skills and research knowledge for a variety of other disciplines.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
2. The California General Education Transfer Curriculum (Cal-GETC)
3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.

Learning Outcome(s):

1. Assess and evaluate the contributions of artists throughout history and analyze art and architecture within the context of their functions and meanings.
2. Identify and evaluate works of art or architecture according to their appropriate style, region, and time frame.

Required Core: (9 units) — **Units:** 9.0

ART 102	Foundations of Drawing	3.0
ART 165	History of Art I - Survey of Western Art	3.0
ART 166	History of Art II - Survey of Western Art	3.0

List A: Select one course (3 units) **Units:** 3.0

ART 163	Arts of Asia	3.0
ART 164	Arts of Africa, Oceania and the Americas	3.0

List B: Select one course (3 units) **Units:** 3.0

ART 104	Design and Composition	3.0

List C: Select one course (3 units) or any course from List A not already used. **Units:** 3.0

ART 169	Survey of Modern Art	3.0

Total: 18.0

Astronomy - Certificate of Achievement (18 units or more)

Earth, Space and Environmental Sciences Department

Provides the student with sufficient background to begin upper division course work. Transfer students should consult the four-year college or university catalog for specific requirements or see a Palomar Collegecounselor. Students pursuing a major in Astronomy at San Diego State Universitymust complete a minor in Mathematics.

Learning Outcome(s):

1. The successful student will be able to demonstrate an understanding of the evolutionary sequence of stars through birth, life, and death.
2. Apply knowledge of impact cratering and other forces to determine the relative ages of surfaces of solid worlds in our Solar System.
3. Apply mathematical concepts in astronomy related to size/scale of the Solar System/universe, gravitation, and properties of stars.

Program Requirements **Units:** 34.0

ASTR 100	Principles of Astronomy	3.0
ASTR 105L	Introduction to Astronomy Laboratory	1.0-0.0
GEOL 120 / ASTR 120	Planets, Moons, and Comets	3.0
		5.0

MATH 140	Calculus with Analytic Geometry, First Course	5.0
OR MATH 140E	Calculus with Analytic Geometry, First Course Enhanced	5.0
		4.0
MATH 141	Calculus with Analytic Geometry, Second Course	4.0
OR MATH 141E	Calculus with Analytic Geometry, Second Course Enhanced	4.0
MATH 205	Calculus with Analytic Geometry, Third Course	4.0-0.0
PHYS 230	Principles of Physics	5.0
PHYS 231	Principles of Physics	5.0
PHYS 232	Principles of Physics	4.0

Recommended Electives

ASTR 210	Life in the Universe	3.0
ASTR 295	Directed Study in Astronomy	1.0-3.0

Total: 34.0

Auto Chassis and Drive Lines - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

This program will prepare students for entry level positions in all aspects of the Automotive Industry with an emphasis in drive-line repair.

Learning Outcome(s):

1. Student will be able to identify the basic parts of a modern Automatic Automotive Transmission.
2. Students are able to identify the components of a planetary gearset.
3. Students will understand the meaning of gear ratios and the effect on torque output.

Program Requirements **Units:** 23.0

AT 105	Automotive Electricity and Electronics	2.0
AT 105L	Automotive Electricity Computer Training Lab	1.0

AT 120	Automotive Transmissions, Transaxles, and Drive Lines	3.0
AT 130	Automotive Brake Systems	3.0
AT 135	Automotive Suspension, Wheels, and Steering Systems	3.0
AT 160	Associated Studies in Automotives	3.0
AT 170	Auto Repair Shop Experience	2.0
IT 108 / WELD 108	Technical Mathematics	3.0
Elective (select one of the following two courses)		3.0
AB 50	Auto Body Repair I	3.0
OR WELD 100	Welding I	3.0

Total: 23.0

Auto Collision Repair - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

This program will prepare students for an entry level position in the automotive collision repair industry.

Learning Outcome(s):

1. Student will become proficient spraying water based automotive finishes.

Program Requirements		Units: 15.0
AB 50	Auto Body Repair I	3.0
AB 51	Auto Body Repair II	3.0
AB 55	Auto Refinishing I	3.0
AB 56	Auto Refinishing II	3.0
IT 108 / WELD 108	Technical Mathematics	3.0

Electives (Select 6 units)		Units: 6.0
AB 97	Auto Body Repair/Auto Refinishing Topics	0.5-4.0
AB 105	Chassis Restoration and Assembly	3.0
AT 100	Introduction to Automotive Technology	3.0
AT 105	Automotive Electricity and Electronics	2.0
AT 105L	Automotive Electricity Computer Training Lab	1.0
AT 170	Auto Repair Shop Experience	2.0
WELD 100	Welding I	3.0
CE 100	Cooperative Education	0.5-4.0

Total: 21.0

Auto Computer Controls and Electronic Tune-Up - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

This program will prepare students for entry level positions in all aspects of the Automotive Industry with an emphasis in drive-ability concerns.

Learning Outcome(s):

1. Student will become proficient using a digital storage oscilliscope to capture sensor signals
2. Student will become proficient using a scantool to comunicate with vehicle powertrain control computers.

Program Requirements		Units: 24.0
AT 105	Automotive Electricity and Electronics	2.0
AT 105L	Automotive Electricity Computer Training Lab	1.0
AT 110	Automotive Engine Performance	3.0
AT 110L	Automotive Tune Up Computer Training Lab	1.0
AT 115	Automotive Fuel Injection and Fuel Systems	3.0
AT 115L	Automotive Fuel Systems Computer Training Lab	1.0
AT 160	Associated Studies in Automotives	3.0
AT 210	Automotive Specialized Electronics	3.0
AT 215	Automotive Emission Control	4.0
IT 108 / WELD 108	Technical Mathematics	3.0

Electives (Select 6-7 units)		Units: 6.0-7.0
AT 100	Introduction to Automotive Technology	3.0
AT 165	Automotive Heating, Ventilation, and Air Conditioning (HVAC) Systems	3.0
AT 170	Auto Repair Shop Experience	2.0
Diesel Tune-Up Elective (select up to one of the following two courses)		4.0
DMT 130	Medium-Duty Diesel Engine Tune-Up	4.0
OR		
DMT 105	Heavy-Duty Diesel Tune-Up and Engine Analysis	4.0
WELD 100	Welding I	3.0
CE 100	Cooperative Education	2.0-3.0

Total: 30.0-31.0

Auto Mechanics-General - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

This program will prepare students for entry level positions in all aspects of the Automotive Industry.

Learning Outcome(s):

1. Student will become proficient using specialized power and hand tools to repair automotive systems
2. Students will be able to find repair information and apply repair techniques to perform maintenance repairs

Program Requirements		Units: 25.0
AT 105	Automotive Electricity and Electronics	2.0
AT 105L	Automotive Electricity Computer Training Lab	1.0
AT 110	Automotive Engine Performance	3.0
AT 110L	Automotive Tune Up Computer Training Lab	1.0
AT 120	Automotive Transmissions, Transaxles, and Drive Lines	3.0
AT 125	Automotive Machining	3.0
AT 130	Automotive Brake Systems	3.0
AT 160	Associated Studies in Automotives	3.0
AT 225	Automotive Engine Rebuilding	3.0
IT 108 / WELD 108	Technical Mathematics	3.0

Electives (Select 4 units)		Units: 4.0
AT 100	Introduction to Automotive Technology	3.0
Automotive Fuel		4.0
AT 115	Automotive Fuel Injection and Fuel Systems	3.0
AND		
AT 115L	Automotive Fuel Systems Computer Training Lab	1.0
AT 165	Automotive Heating, Ventilation, and Air Conditioning (HVAC) Systems	3.0

AT 170	Auto Repair Shop Experience	2.0
AB 50	Auto Body Repair I	3.0
WELD 100	Welding I	3.0

CE 100	Cooperative Education	2.0-4.0

Total: 29.0

AutoCAD Drafting and Design - Certificate of Achievement (8-15 units)

Design and Manufacturing Technologies Department

The AutoCAD Drafting and Design Program provides students with a solid foundation for an entry level position using the most current AutoCAD drafting technology available. This program is designed for students who are planning a career in drafting, as well as for those who are already working in the industry and want to improve their skills in drafting and design. This program will provide the knowledge and skill set to advance their professional goals.

Learning Outcome(s):

1. Demonstrate modeling techniques to create mechanical industry standard drawings.
2. Analyze and incorporate design intent into models as it applies to all elements of design throughout the drawing process.

3. Apply industry standard geometric dimension and tolerancing practices to mechanical drawings for documentation and manufacturing.

Program Requirements		**Units:** 9.0
MACH 117	Blueprint Reading and Geometric Dimensioning and Tolerancing (GD+T)	3.0
DT 101	AutoCAD I	3.0
DT 102	AutoCAD II	3.0

Total: 9.0

Basic Dance Certificate - Certificate of Achievement (18 units or more)

Performing Arts Department

This program is designed to introduce students to the breadth and depth of dance as a field of study and to possible career choices within the field of dance.

Program Requirements		**Units:** 18.5
DNCE 100	Survey of Dance	3.0
DNCE 101	Survey of World Dance	3.0
Select One		1.0
DNCE 120	Jazz Technique I	1.0
OR		
DNCE 121	Jazz Technique II	1.0
Select One		1.0
DNCE 110	Modern Dance I	1.0
OR		
DNCE 111	Modern Dance II	1.0
Select One		1.0
DNCE 115	Ballet I	1.0
OR		
DNCE 116	Ballet II	1.0
Select One		1.0
DNCE 149	Afro-Cuban/Brazilian Dance I	1.0
OR		
DNCE 150	Afro-Cuban/Brazilian Dance II	1.0
Select One		1.0
DNCE 151	Latin Social Dance I	1.0
OR		
DNCE 152	Latin Social Dance II	1.0
Select One		1.0
DNCE 130	Tap I	1.0
OR		
DNCE 131	Tap II	1.0
Select One		1.0
DNCE 153	Capoeira: Afro/Brazilian Martial Arts I	1.0
OR		
DNCE 154	Capoeira: Afro/Brazilian Martial Arts II	1.0
Select One		1.0
DNCE 155	Hip Hop I	1.0
OR		
DNCE 156	Hip Hop II	1.0
Select One		1.0
DNCE 162	Near and Middle Eastern I	1.0
OR		
DNCE 163	Near and Middle Eastern II	1.0
Select One		1.0
DNCE 158	Hawaiian and Tahitian Dance I	1.0
OR		
DNCE 159	Hawaiian and Tahitian Dance II	1.0
DNCE 190	World Dance Production I	1.5
DNCE 225	Contemporary Dance Ensemble I	1.0

Total: 18.5

Basic Music Skills - Certificate of Proficiency (Less than 18 units)

Performing Arts Department

The primary purpose of this certificate is to provide basic music skills and music fluency. The knowledge gained may be particularly valuable to pre-school or elementary school teachers, music therapists, recreational therapists, multimedia specialists, video game designers, or other creative artists who use music to complement their primary art form.

Program Requirements	**Units:** 11.0

MUS 100	Music Appreciation	3.0
MUS 103	Fundamentals of Music	3.0
MUS 115	Basic Keyboard I	0.5
MUS 117	Basic Keyboard II	0.5
MUS 130	Fundamental Vocal Skills	0.5
MUS 175	Beginning Guitar	0.5
MUS 180	Computer Music I	3.0

Electives (Select a minimum of 4.5 units)   **Units:** 4.5

MUS 101	Survey of 20th Century Music	3.0
MUS 102	Introduction to Jazz	3.0
MUS 131	Vocal Literature and Performance	0.5
MUS 138 / DNCE 138	Cuban and Brazilian Drumming II	0.5
MUS 148	Palomar Chorale	1.0

MUS 150	Musical Theatre - Vocal	0.5
MUS 151	Concert Band	1.0
MUS 152	Jazz Ensemble	1.0
MUS 155	Chamber Ensemble - Brass	1.0
MUS 158	Chamber Singers	0.5
MUS 161	Summer Concert Band	0.5
MUS 169	History of Rock Music	3.0
MUS 171	World Music	3.0
MUS 172	Repertory Jazz Ensemble	1.0
MUS 176	Intermediate Guitar	0.5
MUS 184	Electronic Ensemble	1.0
MUS 187	Computer Music Composition	1.0
MUS 198	Palomar Symphony Orchestra	1.0
MUS 224	Introduction to Jazz Piano	0.5

Total: 15.5

Basic Police Academy - Certificate of Achievement (18 units or more)

Public Safety Programs Department

The Basic Police Academy Certificate of Achievement is a series of courses which, when combined, satisfy mandated training requirements for a California Basic Peace Officers Standards and Training (POST) Certificate of Completion. The program is POST-certified and prepares the student for work as a sworn law enforcement officer in the State of California.

Admission to the program is by special application (www2.palomar.edu/policeacademy). To be eligible for consideration, the applicant must (1) be free of felony conviction or conviction of a misdemeanor which prohibits possession of a firearm, (2) possess a valid driver's license, (3) pass written, oral, and physical fitness examinations, (4) pass a medical examination, (5) be 18 years old (required by law to be age 21 for employment), and (6) pass a Department of Justice firearms clearance.

In addition to passing the required college examinations, the student must obtain passing scores on all POST Examinations, and all skills/lab portions within the Academy.

The Police Academy units may be applied toward the Administration of Justice Associate's Degree requirements.

Learning Outcome(s):

1. Students will classify and describe basic criminal law, procedures and radio code communication for law enforcement in the State of California as defined by the California Commission on Peace Officers Standards and Training (POST).
2. Students will demonstrate proper methods to manage critical incidents and write law enforcement reports as defined by the California Commission on Peace Officers Standards and Training (POST).
3. Students will conduct preliminary investigations and respond to crimes in progress calls through practical exercises as defined by the California Commission on Peace Officers Standards and Training (POST).
4. Students will demonstrate professionalism, diversity and ethics for law enforcement in the State of California as defined by the California Commission on Peace Officers Standards and Training (POST).
5. Students will demonstrate proper methods of traffic enforcement and patrol techniques for law enforcement in the State of California as defined by the California Commission on Peace Officers Standards and Training (POST).
6. Students will demonstrate proficiency in firearms, defensive tactics, and use of force procedures for law enforcement in the State of California as defined by the California Commission on Peace Officers Standards and Training (POST).
7. Students will evaluate the importance of physical fitness and development of lifelong health & wellness practices, and identify how diverse applications of fitness promote equity and contribute to social wellness & public health. Students will participate in physical fitness training exercises that include cardiorespiratory, muscular strength, muscular endurance, flexibility, and balance. Assessment of fitness and tracking progress will be included as set forth by the California Commission on Peace Officer Standards and Training (POST).

Program Requirements   **Units:** 38.0

AJ 85	Police Academy Preparation	3.0
AJ 86	Basic Police Academy Module III	7.0
AJ 87A	Basic Police Academy Module IIA	5.5
AJ 87B	Basic Police Academy Module IIB	5.5
AJ 88A	Basic Police Academy Module IA	5.0
AJ 88B	Basic Police Academy Module IB	12.0

Total: 38.0

Biliteracy - Certificate of Achievement (16 units or more)

English as a Second Language Department

This program will provide coursework for multilingual students in the ESL department interested in pursuing biliteracy certification. To receive this certificate of achievement acknowledging their biliteracy skills, students that complete a transfer-level Humanities ESL course must also complete college coursework in another approved language.

Learning Outcome(s):

1. Read and write in English at a college level.
2. Read and write in a language other than English at an intermediate level.

Program Core   **Units:** 6.0

ESL 106	Multicultural Humanities	6.0

In addition to the Program Core, students must complete one of the World Languages emphasis blocks below.		**Units:** 13.0-15.0
Emphasis:		13.0-15.0
World Languages Spanish Emphasis:		13.0
SPAN 211	Spanish for Heritage Speakers I	5.0
AND		
SPAN 212	Spanish for Heritage Speakers II	5.0
AND		
SPAN 235	Intermediate Conversation and Writing	3.0
OR		
World Languages Japanese Emphasis:		15.0
JAPN 102	Japanese II	5.0
AND		
JAPN 201	Japanese III	5.0
AND		
JAPN 202	Japanese IV	5.0
OR		
World Languages Italian Emphasis:		15.0

		15.0
ITAL 102	Italian II	5.0
AND		
ITAL 201	Italian III	5.0
AND		
ITAL 202	Italian IV	5.0
OR		
World Languages German Emphasis:		15.0
GERM 102	German II	5.0
AND		
GERM 201	German III	5.0
AND		
GERM 202	German IV	5.0
OR		
World Languages French Emphasis		15.0
FREN 102	French II	5.0
AND		
FREN 201	French III	5.0
AND		
FREN 202	French IV	5.0

Total: 19.0-21.0

Biology - AS-T Transfer Major (18 units or more)

Life Sciences Department

The Associate in Science in Biology for Transfer provides students with a comprehensive study of the biological sciences as well as the supporting core to understand the dynamics of biology. The Associate in Science in Biology for Transfer is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in the major of Biology. Students completing the major will have a fundamental understanding of concepts and processes in molecular, cellular and organismal biology as well as ecology and evolution. In addition, students will have a solid foundation in math, physics and chemistry.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major.

Learning Outcome(s):

1. Students will demonstrate a thorough understanding of the concept of biological evolution. This will include both microevolution (changes in allele frequencies within a population over time) and macroevolution. Students will understand how evolution explains observed variations between individuals and populations, how selection pressures alter survival values of traits, and the evidence supporting evolution.

2. Students will demonstrate an understanding of the principles behind scientific thinking. Students will understand the concept of empiricism, statistics and uncertainty, hypotheses and

hypothesis testing, the concept of a scientific theory, and experimental design and analysis. Students will show competence in the design and execution of scientific experiments, and the use of common scientific apparatus (e.g. microscopes).

Program Requirements		**Units:** 8.0
BIOL 200	Foundations of Biology I	4.0
BIOL 201	Foundations of Biology II	4.0

List A		**Units:** 23.0-25.0
CHEM 110	General Chemistry	3.0
CHEM 110L	General Chemistry Laboratory	2.0
CHEM 115	General Chemistry	3.0
CHEM 115L	General Chemistry Laboratory	2.0
		5.0
MATH 140	Calculus with Analytic Geometry, First Course	5.0
OR		
MATH 140E	Calculus with Analytic Geometry, First Course Enhanced	5.0
		8.0-10.0
PHYS 121	General Physics	4.0
AND		
PHYS 120	General Physics	4.0
OR		
PHYS 200	Fundamentals of Physics	5.0
AND		
PHYS 201	Fundamentals of Physics	5.0
OR		

| PHYS 230 | Principles of Physics | 5.0 | PHYS 231 | Principles of Physics | 5.0 |
| AND | | | | | |

Total: 31.0-33.0

Biology-Preprofessional - A.S. Degree Major/Cert. Achievement (18 units or more)

Life Sciences Department

Provides intensive lower-division preparation for pursuing advanced studies in biological science, pre-medical, pre-dental, or pre-veterinarian programs leading towards a Bachelor's degree and beyond.

Students are advised to consult catalogs of the institution to which they plan to apply to determine special or additional requirements, or see a Palomar College Counselor.

Students are further advised to consult with intended transfer institutions as to whether organic chemistry should be taken before or after transfer.

Learning Outcome(s):

1. Students will demonstrate a thorough understanding of chemistry as it relates to biological systems, including biomolecules, protein synthesis, catabolic and anabolic reactions in the cell, and reactions involving biomolecules.
2. Students will demonstrate a thorough understanding of the concept of biological evolution. This will include both microevolution (changes in allele frequencies within a population over time) and macroevolution. Students will understand how evolution explains observed variations between individuals and populations, how selection pressures alter survival values of traits, and the evidence supporting evolution.
3. Students will demonstrate an understanding of the principles behind scientific thinking. Students will understand the concept of empiricism, statistics and uncertainty, hypotheses and hypothesis testing, the concept of a scientific theory, and experimental design and analysis. Students will show competence in the design and execution of scientific experiments, and the use of common scientific apparatus (e.g. microscopes)
4. Students will demonstrate understanding of mathematics through calculus.
5. Students will understand the functioning of life at a cellular level. This includes cell and organelle structure and function, cellular reproduction, and cellular biochemistry (including respiration and photosynthesis).

Program Requirements		Units: 27.0
BIOL 200	Foundations of Biology I	4.0
BIOL 201	Foundations of Biology II	4.0
CHEM 110	General Chemistry	3.0
CHEM 110L	General Chemistry Laboratory	2.0
CHEM 115	General Chemistry	3.0
CHEM 115L	General Chemistry Laboratory	2.0
		5.0
MATH 140	Calculus with Analytic Geometry, First Course	5.0
OR		
MATH 140E	Calculus with Analytic Geometry, First Course Enhanced	5.0
		4.0
MATH 141	Calculus with Analytic Geometry, Second Course	4.0
OR		
MATH 141E	Calculus with Analytic Geometry, Second Course Enhanced	4.0

Recommended Electives

MATH 205	Calculus with Analytic Geometry, Third Course	4.0
PHYS 230	Principles of Physics	5.0
PHYS 231	Principles of Physics	5.0
PHYS 232	Principles of Physics	4.0
BIOL 211	Physiology	4.0
CHEM 220	Organic Chemistry	5.0
CHEM 221	Organic Chemistry	5.0

Total: 27.0

Bookkeeping/Accounting Clerk - Certificate of Achievement (8-15 units)

Business Administration Department

Students learn the fundamentals of accounting from a practical approach with a focus on job-readiness. The program is designed to prepare students for an entry-level bookkeeping/accounting clerk position. Students build necessary software skills, including Excel and QuickBooks.

Learning Outcome(s):

1. Apply the use of accounting software in the private sector or for home bookkeeping and accounting use.
2. Formulate and critically review a set of financial statements (income statement, statement of owner's equity and balance sheet) for both a service firm and/or a merchandising firm, and synthesize the findings in relation to the operating results and the financial position of the firm.

Program Requirements		Units: 9.0-10.0
ACCT 104	Accounting Spreadsheet Concepts	2.0
ACCT 110	Quickbooks	2.0
ACCT 115	Sales Tax, Payroll Taxes, and Employee Benefits	2.0
Elective (select one of the following two courses)		3.0-4.0
ACCT 101	Bookkeeping	3.0
OR		
ACCT 201	Financial Accounting	4.0

Total: 9.0-10.0

Business Administration 2.0 - AS-T Transfer Major (18 units or more)

Business Administration Department

The Associate in Science in Business Administration for Transfer degree 2.0 provides students with the basic functions of business, including accounting, economics, business ethics, business communications and statistical business theory and applications. The degree prepares students for entry into an extraordinary number of academic studies such as: accounting, finance, marketing, business administration, advertising, merchandising, banking, economics, entrepreneurial studies, health care management, hospitality management, international business, and public relations. It can also provide skills necessary for entry-level positions in the field of business.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in this major.

Learning Outcome(s):

1. Financial Accounting: Construct financial statements for the purpose of making business decisions.
2. Managerial Accounting: Analyze financial statements for the purpose of making business decisions.
3. Business Law: Develop an understanding of the law and the legal environment as it relates to business operations.
4. Business Communication: Apply industry-level communication principles and practices in current business documents and written and oral reports.
5. Quantitative Analysis: Perform appropriate analysis on data relevant to a business problem and reach an appropriate conclusion or decision.
6. Business Knowledge: Describe the fundamental principles, methodologies, and theories that are used in business.

Program Requirements   **Units:** 28.0

ACCT 201	Financial Accounting	4.0
ACCT 202	Managerial Accounting	4.0
BUS 117	Legal Environment of Business	3.0
ECON 101	Principles of Economics (Macro)	3.0
ECON 102	Principles of Economics (Micro)	3.0
		4.0
MATH 130	Calculus for Business and the Social Sciences	4.0
OR		
MATH 130E	Calculus for Business and the Social Sciences Enhanced	4.0
QBA/Statistics Elective		4.0
BUS 204	Quantitative Business Analysis	4.0
OR		
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0
OR		
STAT C1000	Introduction to Statistics	4.0
OR		
STAT C1000E	Introduction to Statistics	4.0
Business Elective		3.0
BUS 100	Introduction to Business	3.0
OR		
BUS 205	Business Communication	3.0

• If you earn an Associate in Science for Transfer in Business Administration 2.0, beginning Fall 2022 it will be considered similar to all options of the Business Administration program at CSU San Marcos, and Business Administration General Business and Business Administration Financial Services at San Diego State University • If you earn an Associate in Science for Transfer in Business Administration that is based upon the original version, not the 2.0, it will only be considered similar to the Business Administration Global Supply Chain Management option at CSU San Marcos, and Business Administration General Business and Business Administration Financial Services at San Diego State University.

Total: 28.0

Business Management - Certificate of Achievement (8-15 units)

Business Administration Department

The Business Management Certificate provides an overview of the fundamentals of basic management. Once completed, students will have the problem solving, strategic, and tactical skills needed to make ethical and sound management decisions. This certificate is useful for the new manager or the existing manager that needs to update skills in order to achieve business goals.

Learning Outcome(s):

1. Apply the tactical and strategic communication skills necessary for entry-level work in management.
2. Apply management skills to a business problem to solve it.

Program Requirements   **Units:** 12.0

BMGT 101	Introduction to Management	3.0
BMGT 121	Operations Management	3.0
BUS 138	Business Ethics	2.0
Select one course		1.0
BUS 175	Excel Basic	1.0
OR		
BUS 176	Excel Intermediate	1.0
OR		
BUS 177	Excel Advanced	1.0
BMGT 130	Management/Leadership Issues	3.0

Total: 12.0

Cabinetmaking and Millwork - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

This program will prepare students to make a living at cabinetmaking. It provides the student with the theory and skills needed for employment and/or self employment in the field of cabinetmaking and millwork. Program begins with the basic safe use of tools and machines and basic woodworking processes. Specific and practical skills and knowledge of the cabinetmaking and millwork industries are covered with required and elected coursework.

Learning Outcome(s):

1. Student will be able to work with client to construct and install kitchen cabinets, case furniture or architectural millwork.
2. Student will be able to write a business plan for a cabinet making related business.
3. Students will be able to work with client to be able to design a kitchen with cabinets to the specific needs of client.
4. Students will be prepared to set up a shop to run their own bussiness.

Program Requirements   Units: 24.0

CFT 100	Fundamentals of Woodworking	4.0
CFT 105	Machine Woodworking/Furniture	4.0
CFT 108	Business Woodworking	2.0

Select one group		8.0
Option One		8.0
CFT 165A	Cabinetry Design/Face Frame	4.0
AND		
CFT 167A	Cabinetry Production/Face Frame	4.0
OR		
Option Two		8.0
CFT 165B	Cabinetry Design/European	4.0
AND		
CFT 167B	Cabinetry Production/European	4.0
CFT 168	Cabinetmaking/Architectural Millwork	2.0
CFT 185	Machine Tool Set-Up and Maintenance	2.0
CFT 195	Finishing Technology/Touch-Up and Repair	2.0

Electives (Select one course)		Units: 1.0-2.0
CFT 163	Plastic Laminate Fabrication Techniques	1.0
CFT 169	Cabinetmaking/Computer Cabinet Layout	2.0

Total: 25.0-26.0

California General Education Transfer Curriculum (Cal-GETC) - Certificate of Achievement (18 units or more)

General Education

The California General Education Transfer Curriculum (Cal-GETC) is the singular general education pathway for California Community College (CCC) students to fulfill lower-division general education requirements necessary for transfer and admission to both the California State University (CSU) and the University of California (UC).

Completion of the California General Education Transfer Curriculum (Cal-GETC) will permit a student to transfer from a California Community College (CCC) to a California State University (CSU) campus or program without the need, after transfer, to take additional lower-division, general education courses to satisfy campus general education requirements. Completion of Cal-GETC will permit a student to transfer from a California Community College (CCC) to a University of California (UC) campus or program generally without the need, after transfer, to take additional lower-division, general education courses to satisfy campus general education requirements. For most students, it is strongly recommended that students complete Cal-GETC prior to transfer. Advantages of completing Cal-GETC may include more flexibility in class selection at the university and timely progress to degree completion. All CSUs and most UC campuses and programs will accept certified Cal-GETC completion as satisfying lower-division general education requirements. Note that some individual colleges or majors within a UC campus may not accept or recommend Cal-GETC to fulfill all of their general education requirements.

Note: Students transferring to a CSU who have Cal-GETC certified as complete will still need to complete 9 semester units of upper-division general education (GE) after transfer and may also be held to other campus specific graduation requirements outside of general education and major coursework.

Learning Outcome(s):

1. Communicate clearly and effectively orally and in writing.
2. Think critically when reading and processing information.
3. Reason and solve quantitative problems from a wide array of authentic contexts and everyday life situations.

Program Requirements   Units: 35.0-43.0

Area 1 English Communication	10.0-11.0
Area 2: Mathematical Concepts and Quantitative Reasoning	3.0-5.0
Area 3: Arts and Humanities	6.0-8.0
Area 4: Social and Behavioral Sciences	6.0
Area 5: Physical and Biological Sciences	7.0-10.0
Area 6: Ethnic Studies	3.0

Total: 35.0-43.0

Case Furniture Construction/Manufacturing - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

This program will prepare students to make a living manufacturing case furniture. The emphasis will be on utilizing construction processes and building skills to fabricate solid wood furniture with doors and drawers. By studying   historic period furniture pieces students will apply traditional methods of construction to modern and contemporary designs while also developing production methods to increase efficiency and profit. Students will learn to work with clients to design and construct either period furniture pieces or custom contemporary pieces.

Learning Outcome(s):

1. Student will be able to design and construct period case furniture.
2. Student will be able to write a business plan for a furniture related business.
3. Students will be able to competently use hand tools in basic and complex operations.
4. Students will be able to make judgements as to when simple and traditional methods/processes are appropriate to use.
5. Students will be able to produce their own line of furniture and create production methods to produce large quantities.
6. Students will be able to work with client to design and construct custom case furniture.
7. Students will be prepared to set up a shop to run their own bussiness.

Program Requirements		**Units:** 22.0
CFT 100	Fundamentals of Woodworking	4.0
CFT 105	Machine Woodworking/Furniture	4.0
CFT 108	Business Woodworking	2.0

Select one group		8.0
Option One		8.0
CFT 110A	Period Case Furniture Design	4.0
AND		
CFT 111A	Period Case Furniture Production	4.0
OR		
Option Two		8.0
CFT 110B	Contemporary Case Furniture Design	4.0
AND		
CFT 111B	Contemporary Case Furniture Production	4.0

Electives (select one)		2.0
CFT 118	Furniture Design Development	2.0
OR		
CFT 153	Studio Furniture Design I	2.0
CFT 195	Finishing Technology/Touch-Up and Repair	2.0

Electives (Select 2 units)		**Units:** 2.0
CFT 142	The Art and Craft of Planemaking	1.0
CFT 143	Decorative Box Making	2.0
CFT 148	Marquetry, Inlay and Veneering	2.0
CFT 169	Cabinetmaking/Computer Cabinet Layout	2.0
CFT 170	Workbench Design and Production	2.0
CFT 175	Jigs/Fixtures and Routers	2.0
CFT 185	Machine Tool Set-Up and Maintenance	2.0

Total: 24.0

Chemistry - A.S. Degree Major (18 units or more)

Chemistry Department

Provides the background to begin upper division course work and prepares the student for entry-level jobs that require a knowledge of chemistry. The student is advised to check with the institution to which he/she wishes to transfer for additional courses, which may be required.

Learning Outcome(s):

1. Successful students will be able to apply the scientific method by stating a question, performing experiments and/or analyzing a data presentation.
2. Successful students will be able to set up and execute general and intermediate chemical reactions in the lab using a chemical technique.

Program Requirements		**Units:** 20.0
CHEM 110	General Chemistry	3.0
CHEM 110L	General Chemistry Laboratory	2.0
CHEM 115	General Chemistry	3.0
CHEM 115L	General Chemistry Laboratory	2.0
CHEM 220	Organic Chemistry	5.0
CHEM 221	Organic Chemistry	5.0

Total: 20.0

Child and Adolescent Development - AA-T Transfer Major (18 units or more)

Child Development Department

The Associate in Arts in Child and Adolescent Development for Transfer prepares students to transfer to California State University campuses that offer bachelor's degrees in Child and Adolescent Development. The degree prepares students to demonstrate basic understanding of child development theory and concepts, as well as preparation in lower-division psychology coursework designed to enhance further developmental study. Students who complete the Child and Adolescent Development AA-T degree and choose to take other child development coursework as their electives will also be able to qualify for employment in the field of Early Childhood Education, as well as earn a Child Development Permit issued by the California State Commission on Teacher Credentialing. This degree is separate from the Associate of Science for Transfer in Early Childhood Education, which prepares students to transfer to CSU campuses that offer bachelor's degrees in Child Development and Early Childhood Education. The degree is ideal for students who plan to transfer for further theoretical, psychological, and developmental study in child

and adolescent development, offering lower-division major preparation for baccalaureate degrees.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
2. The California General Education Transfer Curriculum (Cal-GETC)
3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in this major.

Learning Outcome(s):

1. Developmental Milestones: Identify developmentally appropriate curriculum and explain principles and practices pertaining to child development.

2. Environment: Examine the connections among child, families, and communities in child development.
3. Curriculum: Design, implement and evaluate curriculum activities that are based on observation and assessment of young children.

Required Core		**Units:** 10.0
CHDV 100	Child Growth and Development	3.0
PSYC C1000	Introduction to Psychology	3.0
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0

List A		**Units:** 10.0
CHDV 115	Child, Family, and Community	3.0
CHDV 185	Introduction to Curriculum	3.0
PSYC 230	Research Methods in Psychology	4.0

Total: 20.0

Child Development Associate Teacher - Certificate of Achievement (8-15 units)

Child Development Department

This program includes a selection of courses that provides academic preparation to individuals for a career in the field of child development. The program will give students general knowledge and skills in theory, principles, and techniques for working with young children in an entry-level position.

Learning Outcome(s):

1. Developmental Milestones: Students will analyze developmentally appropriate curricula and explain principles and practices pertaining to child development.
2. Environment: Students will be able to illustrate the connections between the child, families, and communities in child development.
3. Guidance: Students will analyze how developmental needs, stages, and milestones impact children's behavior

Program Courses		**Units:** 12.5

CHDV 99	Preparation for Child Development Majors	0.5
CHDV 100	Child Growth and Development	3.0
CHDV 115	Child, Family, and Community	3.0
CHDV 104	Guidance for Young Children	3.0
Select One		3.0
CHDV 185	Introduction to Curriculum	3.0
OR		
CHDV 106	Infant and Toddler Care and Curriculum	3.0
OR		
CHDV 182	ECE Curriculum Experiences: Art, Music and Movement	3.0
OR		
CHDV 184	ECE Curriculum Experiences:Language, Literacy, Math and Science	3.0

Total: 12.5

Child Development Master Teacher: Early Inclusion - A.S. Degree Major/Cert. Achievement (18 units or more)

Child Development Department

This program includes a selection of courses that provides academic preparation to individuals for a teaching career to work with children (primarily ages 3-5) n early childhood settings. The program will give students the general knowledge and skills in theory, principles, and techniques for this specialized group of children.

Learning Outcome(s):

1. Identify developmentally appropriate curriculum and explain principles and practices pertaining to child development.
2. Examine the connections among children, families, and communities in child development.
3. Create an environment with developmentally appropriate materials and activities for young children in an early childhood setting.

4. Apply a variety of effective approaches, strategies, and techniques supporting positive relationships with young children in an early childhood setting.
5. Demonstrate appropriate and effective guidance and teaching strategies in early childhood education.

Program Requirements		**Units:** 37.5
CHDV 99	Preparation for Child Development Majors	0.5
CHDV 100	Child Growth and Development	3.0
CHDV 104	Guidance for Young Children	3.0
CHDV 115	Child, Family, and Community	3.0
CHDV 185	Introduction to Curriculum	3.0
Select One		3.0

CHDV 106	Infant and Toddler Care and Curriculum	3.0
OR		
CHDV 182	ECE Curriculum Experiences: Art, Music and Movement	3.0
OR		
CHDV 184	ECE Curriculum Experiences:Language, Literacy, Math and Science	3.0
CHDV 105	Observation and Assessment	3.0
Observation and Assessment Lab Electives (select one of the following labs)		1.0
CHDV 105A	Observation, Assessment, and Participation Lab: Preschool	1.0
OR		
CHDV 105B	Observation, Assessment, and Participation Lab: Infant/Toddler	1.0
OR		

CHDV 105C	Observation, Assessment, and Participation Lab: Early Inclusion[*]	1.0
Environmental Rating Scale Elective (select one of the following two courses)		1.5
CHDV 152A	Environmental Rating Scale for Early Childhood Settings	1.5
OR		
CHDV 152B	Environmental Rating Scale for Infant/Toddler Settings	1.5
CHDV 120	Health, Safety, and Nutrition	3.0
CHDV 110	Introduction to Children with Disabilities	3.0
CHDV 112	Early Intervention and Inclusion	3.0
CHDV 142	Using Sign in the Early Childhood Setting	0.5
CHDV 195	Adult Supervision and Mentoring in Early Care and Education	3.0
CHDV 201	Practicum in Early Childhood Education	4.0
		Total: 37.5

Child Development Master Teacher: Infant/Toddler - A.S. Degree Major/Cert. Achievement (18 units or more)

Child Development Department

This program includes a selection of courses that provides academic preparation to individuals for a teaching career to work with infants and toddlers (birth to 36 months) in early childhood settings. The program will give students the general knowledge and skills in theory, principles, and techniques for this specialized group of children.

Learning Outcome(s):

1. Development: Identify developmentally appropriate curriculum and explain principles and practices pertaining to child development.
2. Community: Examine the connections among child, families, and communities in child development
3. Strategies and Techniques: Apply a variety of effective approaches, strategies and techniques supporting positive relationships with infants, toddlers and adults.
4. Activities for Infants and Toddlers: Create an environment with developmentally appropriate materials and activities for infants and toddlers.
5. Guidance: Demonstrate appropriate and effective guidance and teaching strategies in early childhood education.

Program Requirements **Units:** 37.5

CHDV 99	Preparation for Child Development Majors	0.5
CHDV 100	Child Growth and Development	3.0
CHDV 115	Child, Family, and Community	3.0
CHDV 104	Guidance for Young Children	3.0
CHDV 106	Infant and Toddler Care and Curriculum	3.0
CHDV 185	Introduction to Curriculum	3.0
CHDV 120	Health, Safety, and Nutrition	3.0
CHDV 105	Observation and Assessment	3.0

Observation and Assessment Lab Electives (select one of the following labs)		1.0
CHDV 105A	Observation, Assessment, and Participation Lab: Preschool	1.0
OR		
CHDV 105B	Observation, Assessment, and Participation Lab: Infant/Toddler[*]	1.0
OR		
CHDV 105C	Observation, Assessment, and Participation Lab: Early Inclusion	1.0
Environmental Rating Scale Elective (select one of the following two courses)		1.5
CHDV 152A	Environmental Rating Scale for Early Childhood Settings	1.5
OR		
CHDV 152B	Environmental Rating Scale for Infant/Toddler Settings	1.5
Curriculum Elective (select one of the following two courses)		3.0
CHDV 182	ECE Curriculum Experiences: Art, Music and Movement	3.0
OR		
CHDV 184	ECE Curriculum Experiences:Language, Literacy, Math and Science	3.0
CHDV 103	Infant and Toddler Development	3.0
CHDV 142	Using Sign in the Early Childhood Setting	0.5
CHDV 195	Adult Supervision and Mentoring in Early Care and Education	3.0
CHDV 201	Practicum in Early Childhood Education	4.0
		Total: 37.5

Child Development Master Teacher: Preschool - A.S. Degree Major/Cert. Achievement (18 units or more)

Child Development Department

This program includes a selection of courses that provides academic preparation to individuals for a teaching career to work with children (primarily ages 3-5) n early childhood settings. The program will give students the general knowledge and skills in theory, principles, and techniques for this specialized group of children.

Learning Outcome(s):

1. Identify developmentally appropriate curriculum and explain principles and practices pertaining to child development.
2. Examine the connections among children, families, and communities in child development.
3. Create an environment with developmentally appropriate materials and activities for young children in an early childhood setting.
4. Apply a variety of effective approaches, strategies, and techniques supporting positive relationships with young children in an early childhood setting.
5. Demonstrate appropriate and effective guidance and teaching strategies in early childhood education.

Child Development Master Teacher: Preschool   **Units:** 37.5

Course	Title	Units
CHDV 99	Preparation for Child Development Majors	0.5
CHDV 100	Child Growth and Development	3.0
CHDV 101	Principles and Practices of Teaching Young Children	3.0
CHDV 104	Guidance for Young Children	3.0
CHDV 105	Observation and Assessment	3.0
CHDV 115	Child, Family, and Community	3.0
CHDV 120	Health, Safety, and Nutrition	3.0
CHDV 142	Using Sign in the Early Childhood Setting	0.5
CHDV 185	Introduction to Curriculum	3.0
CHDV 195	Adult Supervision and Mentoring in Early Care and Education	3.0
CHDV 201	Practicum in Early Childhood Education	4.0

Observation and Assessment Lab Electives (select one of the following labs)		1.0
CHDV 105A	Observation, Assessment, and Participation Lab: Preschool	1.0
OR		
CHDV 105B	Observation, Assessment, and Participation Lab: Infant/Toddler	1.0
OR		
CHDV 105C	Observation, Assessment, and Participation Lab: Early Inclusion	1.0

Environmental Rating Scale Elective (select one of the following two courses)		1.5
CHDV 152A	Environmental Rating Scale for Early Childhood Settings	1.5
OR		
CHDV 152B	Environmental Rating Scale for Infant/Toddler Settings	1.5

Curriculum Elective (select one of the following two courses)		3.0
CHDV 182	ECE Curriculum Experiences: Art, Music and Movement	3.0
OR		
CHDV 184	ECE Curriculum Experiences:Language, Literacy, Math and Science	3.0

Specialization Elective (select one of the following two courses)		3.0
CHDV 102	Working with Parents and Families	3.0
OR		
CHDV 145	Understanding Childhood Stress and Trauma	3.0

Total: 37.5

Child Development Teacher - A.S. Degree Major/Cert. Achievement (18 units or more)

Child Development Department

This program includes a selection of courses that provides academic preparation to individuals for a career as a preschool teacher in an early childhood setting. The program will give students general knowledge and skills in theory, principles, and techniques for working with young children.

Learning Outcome(s):

1. Guidance: Examine a variety of guidance and interaction strategies to increase children's social competence and promote a developmentally healthy and caring classroom community
2. Curriculum Design and Activities: Design and implement curriculum and environments that are developmentally and linguistically appropriate, engaging, and supportive of development and learning based on foundations of early childhood education and knowledge of individual children
3. Observation Common Assessment: Evaluate the characteristics, strengths and limitations of common assessment tools.

Program Requirements   **Units:** 28.0

Course	Title	Units
CHDV 99	Preparation for Child Development Majors	0.5
CHDV 100	Child Growth and Development	3.0
CHDV 115	Child, Family, and Community	3.0
CHDV 104	Guidance for Young Children	3.0
Curriculum Elective (select one of the following courses)		3.0
CHDV 182	ECE Curriculum Experiences: Art, Music and Movement	3.0
OR		
CHDV 184	ECE Curriculum Experiences:Language, Literacy, Math and Science	3.0
OR		
CHDV 106	Infant and Toddler Care and Curriculum	3.0
CHDV 105	Observation and Assessment	3.0
Observation and Assessment Lab Electives (select one of the following labs)		1.0

CHDV 105A	Observation, Assessment, and Participation Lab: Preschool[*]	1.0
OR		
CHDV 105B	Observation, Assessment, and Participation Lab: Infant/Toddler	1.0
OR		
CHDV 105C	Observation, Assessment, and Participation Lab: Early Inclusion	1.0
Environmental Rating Scale Elective (select one of the following two courses)		1.5

CHDV 152A	Environmental Rating Scale for Early Childhood Settings	1.5
OR		
CHDV 152B	Environmental Rating Scale for Infant/Toddler Settings	1.5
CHDV 120	Health, Safety, and Nutrition	3.0
CHDV 185	Introduction to Curriculum	3.0
CHDV 201	Practicum in Early Childhood Education	4.0

Total: 28.0

Child Development: Administration - A.S. Degree Major/Cert. Achievement (18 units or more)

Child Development Department

This program includes a selection of courses that provides academic preparation to individuals for a career as a director or site supervisor in an early childhood setting. The program will give students general knowledge and skills in theory, principles, and techniques for working in an administrative position.

Learning Outcome(s):

1. Development: Students will analyze developmentally appropriate curriculum and explain principles and practices pertaining to child development.
2. Environments: Students will be able to illustrate the connections between the child, families, and communities in child development.
3. Reciprocal Relationship: Critique strategies that support and empower families through respectful, reciprocal relationships to involve families in their children's development and learning.
4. Assessment Tools: Use a variety of personnel, program, and environmental assessment tools to inform leadership decisions.
5. Administration Skills: Apply administration skills in various types of early care and education programs.

Program Requirements		**Units:** 40.0
CHDV 99	Preparation for Child Development Majors	0.5
CHDV 100	Child Growth and Development	3.0
CHDV 102	Working with Parents and Families	3.0
CHDV 104	Guidance for Young Children	3.0
CHDV 105	Observation and Assessment	3.0
Elective (select one of the following three courses)		1.0
CHDV 105A	Observation, Assessment, and Participation Lab: Preschool	1.0
OR		

CHDV 105B	Observation, Assessment, and Participation Lab: Infant/Toddler	1.0
OR		
CHDV 105C	Observation, Assessment, and Participation Lab: Early Inclusion	1.0
CHDV 115	Child, Family, and Community	3.0
CHDV 120	Health, Safety, and Nutrition	3.0
CHDV 150	Administration I: Programs in Early Childhood Education[*]	3.0
CHDV 155	Administration II: Personnel and Leadership in Early Childhood Education[*]	3.0
CHDV 185	Introduction to Curriculum	3.0
CHDV 195	Adult Supervision and Mentoring in Early Care and Education	3.0
CHDV 201	Practicum in Early Childhood Education	4.0
Elective (select one of the following two courses)		1.5
CHDV 152A	Environmental Rating Scale for Early Childhood Settings	1.5
OR		
CHDV 152B	Environmental Rating Scale for Infant/Toddler Settings	1.5
Elective (select one of the following three courses)		3.0
CHDV 182	ECE Curriculum Experiences: Art, Music and Movement	3.0
OR		
CHDV 184	ECE Curriculum Experiences:Language, Literacy, Math and Science	3.0
OR		
CHDV 106	Infant and Toddler Care and Curriculum	3.0

Total: 40.0

Child Development: Child and Family Services - A.S. Degree Major/Cert. Achievement (18 units or more)

Child Development Department

This program includes a selection of courses that provides academic preparation to individuals for a career in working with families in an early childhood environment. The program will give students general knowledge and skills in theory, principles, and techniques for working with young children and families.

Learning Outcome(s):

1. Development: Describe the development of children from conception through adolescence in the physical, social, emotional, and cognitive domains.
2. Community and Environment: Describe socialization of the child focusing on the interrelationship of family, school, and community.

3. Supporting & Empowering: Critique strategies that support and empower families through respectful, reciprocal relationships to involve all families in their children's development and learning
4. Understanding Development: Evaluate the ways that developmentally appropriate, inclusive, and anti-bias approaches support learning and development.
5. Positive Relationships: Apply a variety of effective approaches, strategies and techniques supporting positive relationships with families and children.
6. Trauma Informed: Demonstrate the essential components in communicating with children in play settings by using trauma informed practices.

Program Requirements **Units:** 27.5

CHDV 99	Preparation for Child Development Majors	0.5
CHDV 100	Child Growth and Development	3.0
CHDV 115	Child, Family, and Community	3.0
CHDV 104	Guidance for Young Children	3.0
Elective (select one of the following four courses)		3.0
CHDV 185	Introduction to Curriculum	3.0
OR		
CHDV 106	Infant and Toddler Care and Curriculum	3.0
OR		
CHDV 184	ECE Curriculum Experiences:Language, Literacy, Math and Science	3.0
OR		
CHDV 182	ECE Curriculum Experiences: Art, Music and Movement	3.0
CHDV 120	Health, Safety, and Nutrition	3.0
EDUC 172 / CHDV 172	Teaching in a Diverse Society	3.0
CHDV 102	Working with Parents and Families	3.0
CHDV 145	Understanding Childhood Stress and Trauma	3.0
Internship with Lab		3.0
CHDV 205	Internship in Child and Family Services	2.0
AND		
CHDV 205A	Internship in Child and Family Services Lab	1.0

Total: 27.5

Child Development: School Age Assistant - Certificate of Achievement (12-17 units)

Child Development Department

This program includes a selection of courses that provides academic preparation to individuals for a career working with school age children in before and after school and enrichment programs. The program will give students general knowledge and skills in theory, principles, and techniques for working with school age children in an entry level position.

Learning Outcome(s):

1. Development: Identify developmentally appropriate curriculum and explain principles and practices pertaining to child development.
2. Community: Examine the connections among child, families, and communities in child development.
3. Curriculum Activities: Design, implement, and evaluate curriculum activities that are appropriate for school age children in a before and/or after school learning environment.
4. Positive Guidance Strategies: Formulate developmentally appropriate positive guidance strategies for working with school age children in a before and/or after school learning environment.
5. School Age Development: Examine school age development as it relates to the individual as well as actions and attitudes in a group setting

Program Requirements **Units:** 15.5

CHDV 99	Preparation for Child Development Majors	0.5
CHDV 100	Child Growth and Development	3.0
CHDV 104	Guidance for Young Children	3.0
CHDV 115	Child, Family, and Community	3.0
CHDV 180	School-Age Development	3.0
CHDV 190	Curriculum for the School-Aged Child	3.0

Total: 15.5

Cinema Studies - A.A. Degree Major (18 units or more)

Media Studies Department

The Cinema Studies Associate of Arts Degree offers students an in-depth study of the history, aesthetics, production and social relevance of this major art and communication form. Students learn to analyze audiovisual language including cinematography, editing and sound, and how meaning is created through narrative and genre. Courses explore how motion pictures reflect, and contribute to, representations of race, class, gender, sexual orientation, ethnicity and nationality, past and present. Film production courses offer students hands-on experience with the production process and a means to deepen their understanding of film language and aesthetics. Through completing the eighteen-credit program, students develop critical writing, visual communication and analytical skills that provide a foundation for university study across a range of disciplines in the arts, humanities and social sciences.

Learning Outcome(s):

1. Demonstrate audiovisual literacy through using film terminology to analyze the aesthetics and meaning of screenwriting, mise-en-scène, cinematography, editing, sound, narrative, documentary and genre in a motion picture.
2. Critically analyze motion pictures as an industry, art form, technology and socio-cultural artifact past and present.
3. Employ basic techniques of film making, including script writing, camera use, lighting and editing.
4. Write critically and analytically about motion pictures and their social contexts.

Program Requirements **Units:** 12.0

CINE 100	Art of the Cinema	3.0
CINE 102	History of Film to 1945	3.0
CINE 103	History of Film 1945 - Present	3.0

CINE 125 / DBA 125	Beginning Single Camera Film and Video Production	3.0

Electives (Select 6 units) — **Units:** 6.0

CINE 105	Film Subjects	3.0
CINE 106	Horror Film	3.0
CINE 110	Documentary Film	3.0
CINE 115 / DBA 115	Creative Writing for Television and Cinema	3.0

CINE 120	Film Criticism	3.0
CINE 122	Identity in American Film	3.0
CINE 123	Queer Cinema	3.0
CINE 170 / DBA 170	Introduction to Video Editing	3.0
CINE 225 / DBA 225	Intermediate Single Camera Film and Video Production	3.0

Total: 18.0

Cinema Studies - Certificate of Achievement (8-15 units)

Media Studies Department

The Cinema Studies Certificate of Achievement offers students a broad overview of the history, aesthetics, production and social relevance of this major art and communication form. Students learn to analyze audiovisual language including cinematography, editing and sound design, and how meaning is created through narrative and genre. Courses explore how motion pictures reflect, and contribute to, representations of race, class, gender, sexual orientation, ethnicity and nationality past and present. The nine-unit certificate develops students' critical writing, visual and analytical skills, and serves as a stackable certificate for the Associate in Science Degree for Transfer in Film, Television and Electronic Media and the Associate of Arts in Cinema Studies Degree. The certificate complements majors in the arts, media, communications, humanities and social sciences.

Learning Outcome(s):

1. Demonstrate audiovisual literacy through using film terminology to analyze the aesthetics and meaning of screenwriting, mise-en-scène, cinematography, editing, sound, narrative, documentary and genre in a motion picture.
2. Critically analyze motion pictures as an industry, art form, technology and socio-cultural artifact past and present.
3. Write critically and analytically about motion pictures and their social contexts, including how motion pictures reflect, and contribute to, representations of race, class, gender, sexual orientation, ethnicity and nationality past and present.

Program Requirements — **Units:** 3.0

CINE 100	Art of the Cinema	3.0

Select 1 Course — **Units:** 3.0

Select one course		3.0
CINE 102	History of Film to 1945	3.0
OR		
CINE 103	History of Film 1945 - Present	3.0

Select 1 Course — **Units:** 3.0

Select one course		3.0
CINE 102	History of Film to 1945	3.0
OR		
CINE 103	History of Film 1945 - Present	3.0
OR		
CINE 115 / DBA 115	Creative Writing for Television and Cinema	3.0
OR		
CINE 125 / DBA 125	Beginning Single Camera Film and Video Production	3.0
OR		
CINE 170 / DBA 170	Introduction to Video Editing	3.0
OR		
CINE 225 / DBA 225	Intermediate Single Camera Film and Video Production	3.0

Total: 9.0

CIS: Data Analytics - A.S. Degree Major/Cert. Achievement (18 units or more)

Computer Science & Information Systems Department

CIS: Data Analytics is the science of analyzing raw data in order to make informed decisions with the goal of optimizing performance. This degree focuses on concepts as well as current and emerging software required to be a successful Data Analyst. Typical employment opportunities include: Data Analyst, Business Analyst, Business Intelligence, Research Analyst, Data Visualization Developer, Social Media Marketing, and Application Tester and Developer. Ideal for students with a Bachelors degree, work or military experience and excited to break into the growing field of Data Analytics and Data Science.

Learning Outcome(s):

1. Examine and apply the science of analyzing raw data in order to make conclusions about that information to assist in optimizing performance using emerging application software and programming specializing in Data Analytics.

2. Demonstrate communication, teamwork, and project-based learning skills necessary to function effectively on teams to accomplish a common goal.
3. Analyze business and technical challenges and then identify and define the computer software application and programming requirements appropriate for the business process.
4. Identify problem and process requirements and then design, implement, evaluate, and communicate a computer-based system, process, component, program, or application program to assist in achieving the desired problem results.

Program Requirements — **Units:** 22.0

CSIT 125	Computer Information Systems	3.0
CSIT 128	Foundations of Data Science	4.0
CSIT 150	Introduction to SQL	3.0

CSIT 165	R Programming	3.0
CSIT 175	Python Programming	3.0
CSIT 226	Data Visualization	3.0
CSIT 230	Data Modeling	3.0

Data Analytics/Data Science Electives - Choose Two **Units:** 6.0-8.0

CSIT 275	Advanced Python Programming	3.0

CSCI 250	Introduction to Artificial Intelligence	4.0
CSCI 290	Introduction to Machine Learning	4.0
CSNT 150	AWS Academy Cloud Foundations	3.0
GEOG 120	Digital Earth: Introduction to Geographic Information Systems	4.0
JOUR 200	Mastering Social Media	3.0

Total: 28.0-30.0

Cloud Computing and Virtualization - A.S. Degree Major (18 units or more)

Computer Science & Information Systems Department

The Cloud Computing and Virtualization degree program focus is on teaching students the fundamentals of cloud computing specifically on the Amazon Web Services (AWS) infrastructure. Students will be prepared for a detailed overview of cloud concepts, AWS core services, security, architecture, pricing, and support. Further exploration of the fundamentals of building IT infrastructure on AWS will support development with the AWS SDK and identify best practices for building and deploying applications in the AWS Cloud preparing students to pursue in-demand DevOps, support, and cloud operations roles.

Learning Outcome(s):

1. Examine the health of the AWS cloud infrastructure with services such as Amazon CloudWatch, AWS CloudTrail, and AWS Config.
2. Identify the global infrastructure components of AWS.
3. Make architectural decisions based on AWS architectural principles and best practices.
4. Construct AWS managed services to enable greater flexibility and resiliency in an infrastructure.
5. Devise ways to increase performance and reduce cost of a cloud infrastructure built on AWS.
6. Design cloud architectures to decouple infrastructure and reduce interdependencies.
7. Identify best practices for deploying applications in AWS.
8. Analyze resource consumption in an AWS account by using tags, Amazon CloudWatch, and AWS Trusted Advisor.

Program Requirements **Units:** 25.0

CSNT 110	Hardware and O.S. Fundamentals	4.0
CSNT 111	Networking Fundamentals	3.0
CSIT 175	Python Programming	3.0
CSNT 181	Hacker Prevention/Security	3.0
CSNT 150	AWS Academy Cloud Foundations	3.0
CSNT 152	AWS Academy Cloud Developing	3.0
CSNT 153	AWS Academy Cloud Operations	3.0
CSNT 280	Computer Forensics Fundamentals	3.0

Total: 25.0

Cloud Computing Technician - Certificate of Achievement (8-15 units)

Computer Science & Information Systems Department

The Cloud Computing Specialist Certificate of Achievement program focuses on teaching students the fundamentals of cloud computing specifically on the Amazon Web Services (AWS) infrastructure. Students will be prepared for a detailed overview of cloud concepts, AWS core services, security, architecture, pricing, and support. Further exploration of the fundamentals of building IT infrastructure on AWS will support development with the AWS SDK and identify best practices for building and deploying applications in the AWS Cloud preparing students to pursue in-demand DevOps, support, and cloud operations roles.

Learning Outcome(s):

1. Students will be competent in creating and configuring automated and repeatable deployments with tools such as Amazon Machine Images (AMIs) and AWS CloudFormation.
2. Students will be able to manage, secure, and scale databases on AWS.

Program Requirements **Units:** 12.0

CSNT 150	AWS Academy Cloud Foundations	3.0
CSNT 151	AWS Academy Cloud Architecting	3.0
CSNT 152	AWS Academy Cloud Developing	3.0
CSNT 153	AWS Academy Cloud Operations	3.0

Total: 12.0

Coaching - Certificate of Achievement (12-17 units)

Health and Kinesiology Department

The intent of this program is to prepare students in the field of physical activity so they may pursue a career in coaching: the courses offered will help students as they continue to pursue this career path, and prepare students for immediate entry-level employment in the field of individual, group, or team coaching. Students completing the certificate will be more qualified to coach inter-scholastically, within sport organizations, and in private business.

Learning Outcome(s):

1. Students will investigate and discuss the various demands required to be successful in the coaching field.
2. Interpret the rules and regulation of student's sport of choice.
3. Students will design a progressive practice plan for the diverse athletes in their respective sport.

Program Requirements **Units:** 14.0-14.5

HE 100	Health Education and Fitness Dynamics	3.0

Lab Application - Choose One Course		1.0-1.5
KINE 105	Cardio Conditioning Applications	1.5
OR		
HE 100L	Health Performance Lab	1.0

Select One Course		3.0
KINE 100	Introduction to Kinesiology	3.0

OR		
KINE 102	Physical Education in Elementary Schools, Movement and Theory	3.0
HE 104	Emergency Medical Responder	3.0
KINE 196	Theory of Coaching	3.0
KINE 298	Internship	1.0

Total: 14.0-14.5

Commercial Photography Certificate - Certificate of Proficiency (Less than 18 units)

Media Studies Department

This Certificate is designed to provide an avenue for those students interested in pursuing a career as a professional photographer in the areas of advertising photography, product photography, portrait and wedding photography, photojournalism, editorial and documentary photography and other photo related vocations. Courses address technique, aesthetics, ethics and business practices. See course description for specific topics and prerequisites.

Program Requirements   **Units:** 15.0

PHOT 130	Photoshop for Photographers I	3.0
PHOT 140	Photojournalism	3.0
PHOT 220	Commercial Photography	3.0
PHOT 225	Photographic Portraiture	3.0
PHOT 209	Photographic Portfolio	3.0

Total: 15.0

Communication Studies 2.0 - AA-T Transfer Major (18 units or more)

Speech, Forensics, ASL Dept.

The Associate in Arts in Communication Studies for Transfer 2.0 degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in Communication Studies. The Communication Studies 2.0 AA-T degree encourages students to examine and evaluate human communication across and within various contexts for the purpose of increasing competence. The Communication Studies 2.0 AA-T degree is beneficial for students seeking a baccalaureate degree ultimately leading to careers in business, teaching, law, counseling, healthcare, broadcasting, advertising, journalism and performing arts.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major.

Learning Outcome(s):

1. Students will analyze how communication transactions create and sustain communities, organizations, and national, ethnic, and gender based co-cultures.
2. Students will present expository and argumentative messages, in terms of the reasoning process, use of evidence, detection of fallacious logic, and adaptation to an audience.

3. Students will critically evaluate forms and theories of communication.

Required Courses   **Units:** 6.0

COMM C1000	Introduction to Public Speaking	3.0
SPCH 115	Interpersonal Communication	3.0

List A: Select three (9 units)   **Units:** 9.0

SPCH 105	Beginning Argumentation and Critical Thinking	3.0
SPCH 120	Human Communication	3.0
SPCH 131	Intercultural Communication	3.0
SPCH 170	Small Group Communication	3.0
COMM 100	Introduction to Mass Communication	3.0

List B: Select one (3 units) or any list A course not already used   **Units:** 3.0-4.0

ENGL C1001	Critical Thinking and Writing	4.0
ENG 205	Introduction to Literature	3.0
JOUR 101	Newswriting and Reporting	3.0
TA 125 / SPCH 125	Beginning Oral Interpretation	3.0
SPCH 290	Competitive Intercollegiate Forensics	3.0

Total: 18.0-19.0

Composites Technology - A.S. Degree Major/Cert. Achievement (18 units or more)

Design and Manufacturing Technologies

The Composite Materials Technology program at Palomar College prepares students to work in industries such as aerospace, automotive, marine, sporting goods, and parts assembly. This program introduces basic composite materials, techniques, and procedures and progresses through advanced composite skills. Students will demonstrate industry standards concerning safety, composite terminology, hand lay-ups, and composite inspection and repair. Students who complete this program will be prepared for entry-level employment as composite technicians and composite repair technicians.

Learning Outcome(s):

1. Describe and utilize manufacturing techniques, tools, and safety practices.
2. Communicate effectively and appropriately using industry-specific terminology.
3. Evaluate and utilize repair techniques, tools, and safety practices.
4. Evaluate information from a variety of sources and contexts, including technology.

Program Requirements		Units: 30.0
DT 117	Blueprint Reading and Geometric Dimensioning and Tolerancing (GD+T)	3.0
IT 108 / WELD 108	Technical Mathematics	3.0
MACH 190	CNC Machining / MasterCAM I	3.0
MACH 120	Precision Measure and Metrology	3.0
MACH 228	Metallurgy and Industrial Materials	3.0

CMPST 110	Introduction to Composites, Mold Prep, and Tooling	3.0
CMPST 130	Composites Repair	3.0
CMPST 111	Composites Bagging and Materials	3.0
CMPST 210	Composite Machining and Part Finish	3.0
CMPST 211	Composite Engineering, Pattern and Mold Construction	3.0

To complete the A.S. Degree, choose a General Education (GE) Pattern. Please make an appointment with a counselor to review details specific to your academic goals.

Palomar College District General Education and District Requirements[*]	
California State University General Education Breadth (CSU GE)	
Intersegmental General Education Transfer Curriculum Pattern (IGETC)	

[*]*Competence in Reading and Written Expression; Competence in Mathematics; Competence in American History and Institutions/ California Government; Competence in Health and Fitness; Ethnic Studies

Total: 30.0

Computer Network Administration with Emphasis: Cisco - A.S. Degree Major/Cert. Achievement (18 units or more)

Computer Science & Information Systems Department

This program prepares the student for employment in the field of Computer Networking. The focus is on developing skills in a combination of the fundamental and basic network technologies produced by Cisco. Specific learning outcomes include developing team dynamics in the following skills: Network Media Installation, LAN and WAN Design, Network Management, Fundamentals of Networking Devices, Client Hardware Repair, Network Operating Systems Installation and Configuration, Networking Device Operating Systems, Installation and Configuration, Client Operating Systems Installation and Configuration, Network Security, Remote Access, Routing Principles and Configuration, and Maintaining a Corporate Network.

Learning Outcome(s):

1. A student should be able to secure a small-to-midsized network using Cisco Equipment

2. A student should be able to successfully design, install, configure, maintain, and secure a small to mid-sized LAN environment using Cisco Hardware Technologies.

Program Requirements		Units: 25.0
CSNT 110	Hardware and O.S. Fundamentals	4.0
CSNT 111	Networking Fundamentals	3.0
CSNT 160	Cisco Networking	3.0
CSNT 161	Cisco Router Configuration	3.0
CSNT 260	Cisco Advanced Routing and Switching	3.0
CSNT 261	Cisco Wide Area Network Design and Support	3.0
CSNT 181	Hacker Prevention/Security	3.0
CSNT 280	Computer Forensics Fundamentals	3.0

Total: 25.0

Computer Network Administration - A.S. Degree Major/Cert. Achievement (18 units or more)

Computer Science & Information Systems Department

This program prepares the student for employment in the field of Computer Networking. The focus is on developing skills in a combination of the network technologies. Specific learning outcomes include developing team dynamics in the following skills: Network Media and Hardware Installation, LAN and WAN Design, Network

Management, Fundamentals of Networking Devices, Client Hardware Repair, Network Operating Systems Installation and Configuration, Networking Device Operating Systems, Installation and Configuration, Client Operating Systems Installation and Configuration, Network Security, Remote Access, Active Directory, Network Infrastructure, Exchange Server, Routing Principles and

Configuration, and Maintaining a Corporate Network. Students will be prepared to take specific industry certification exams related to network administration.

Learning Outcome(s):

1. Successfully design, install, configure, maintain, and secure a small to mid-sized LAN environment using networking technologies.
2. Design an application distribution strategy that is appropriate for an organizational environment. (Active)

Program Requirements		**Units:** 31.0
CSNT 110	Hardware and O.S. Fundamentals	4.0

CSNT 111	Networking Fundamentals	3.0
CSNT 120	Windows Client and Microsoft Office Deployment	3.0
CSNT 121	Windows Server	3.0
CSNT 122	Windows Server Advanced	3.0
CSNT 130	Linux Administration	3.0
CSNT 181	Hacker Prevention/Security	3.0
CSNT 250	Cyber Defense and Analysis	3.0
CSNT 160	Cisco Networking	3.0
CSNT 280	Computer Forensics Fundamentals	3.0

Total: 31.0

Computer Science - A.S. Degree Major/Cert. Achievement (18 units or more)

Computer Science & Information Systems Department

Computer Science is the study and design of computer systems: both hardware and software. Computer scientists are primarily concerned with the design of algorithms, languages, hardware architectures, systems software, applications software and tools. Emphasis in the Computer Science program is placed on the ability to solve problems and think independently. The program offers a foundation in data structures, computer architecture, software design, algorithms, programming languages, and object-oriented programming. See a Counselor for additional university transfer requirements in this major.

Learning Outcome(s):

1. Apply important data structures and algorithms.
2. Design and write computer programs that are correct, efficient, and well documented.
3. Make the right choices of language, platform, and data structures for a computer programming solution based on their knowledge of the elements of program design.
4. Identify and explain the hardware and software aspects of computer systems that support application software development.

Program Requirements		**Units:** 20.0
CSCI 112	Programming Fundamentals I	4.0
CSCI 114	Programming Fundamentals II	4.0
CSCI 210	Data Structures	4.0
CSCI 212	Machine Organization and Assembly Language	4.0
CSCI 222	C++ and Object-Oriented Programming	4.0

Electives (Select 2 courses)		**Units:** 6.0-8.0
CSCI 130	Linux Fundamentals	3.0
CSCI 250	Introduction to Artificial Intelligence	4.0
CSCI 290	Introduction to Machine Learning	4.0
CSIT 175	Python Programming	3.0
MATH 245	Discrete Mathematics	3.0

Total: 26.0-28.0

Computer Science with Emphasis in Video Gaming - A.S. Degree Major/Cert. Achievement (18 units or more)

Computer Science & Information Systems Department

Computer Science is the study and design of computer systems: both hardware and software. Computer scientists are primarily concerned with the design of algorithms, languages, hardware architectures, systems software, applications software and tools. Emphasis in the Computer Science program is placed on the ability to solve problems and think independently. The program offers a foundation in data structures, computer architecture, software design, algorithms, programming languages, and object-oriented programming. This program also introduces students to the video game industry, video game design and programming. See a Counselor for additional university transfer requirements in this major.

Learning Outcome(s):

1. This program will introduce students to the video game industry, video game design and programming. Upon completion of the

course student will create a 3D game using Microsoft's DirectX 9.0.

Program Requirements		**Units:** 31.0
CSCI 112	Programming Fundamentals I	4.0
CSCI 114	Programming Fundamentals II	4.0
CSCI 160	Overview of the Video Game Industry	4.0
CSCI 161	Video Game Design	4.0
CSCI 210	Data Structures	4.0
CSCI 212	Machine Organization and Assembly Language	4.0
CSCI 222	C++ and Object-Oriented Programming	4.0
CSCI 260	Video Game Programming I	3.0

Total: 31.0

Creating Your Business in a Gig Economy - Certificate of Proficiency (Less than 18 units)

Business Administration Department

This unique three course certificate combines a comprehensive course in small business entrepreneurship to launch a business; a course in social media to advertise and market the business; and a cooperative education course where the student will be mentored on the creation of a new business or improvement of an existing business, via a business coach.

Learning Outcome(s):

1. Upon completion of this program, students will be able to create, market and maintain their own small business.

2. Upon completion of this program, students will be able to apply the principles, practices, and strategies of small business management in wholesale, retail, or service operations.

Program Requirements:		Units: 7.0-10.0
BMGT 153	Small Business Entrepreneurship	3.0
BUS 152	Social Media for Business	3.0
CE 100	Cooperative Education	0.5
		Total: 7.0-10.0

Creo Parametric Drafting and Design - Certificate of Achievement (8-15 units)

Design and Manufacturing Technologies Department

The Creo Parametric Drafting and Design Program provides students with a solid foundation for an entry level position using the most current Creo Parametric drafting technology available. This program is designed for students who are planning a career in drafting, as well as for those who are already working in the industry and want to improve skills in 3D drafting and design. This course will provide the knowledge and skill set to advance their professional goals.

Learning Outcome(s):

1. Interpret types of mechanical prints, symbols and specifications for the manufacturing industry.

2. Use acceptable geometric dimensioning and tolerancing practices to produce drawings for documentation and manufacturing.

Program Requirements		Units: 9.0
MACH 117	Blueprint Reading and Geometric Dimensioning and Tolerancing (GD+T)	3.0
DT 114	Creo Parametric I	3.0
DT 115	Creo Parametric II	3.0
		Total: 9.0

Cyber Defense Infrastructure Support Specialist - Certificate of Achievement (18 units or more)

Computer Science & Information Systems Department

This certificate prepares students for a career in cybersecurity as a Cyber Defense Infrastructure Support Specialist. The certificate emphasizes competency in computer networking, information systems management, Linux fundamentals, cybersecurity fundamentals, python programming, computer forensics, and ethical hacking fundamentals. Students will develop skills in risk and vulnerability management as well as learn competencies in cyber defense, computer forensics, and ethical hacking. Students will also develop analytical skills and programming fundamentals using python programming.

Learning Outcome(s):

1. Students will learn how to solve a cybersecurity issue using programming constructs to implement automated processes for analyzing an organizational defensive posture.
2. Students will use a cybersecurity pentest framework to plan and scope a pentesting engagement; gather pertinent organizational information and identify cybersecurity vulnerabilities; use common offensive security tools to exploit organizational vulnerabilities, and clearly document the results of the penetration testing effort both in writing and orally.

Program Requirements		Units: 24.0
CSNT 111	Networking Fundamentals	3.0
CSNT 181	Hacker Prevention/Security	3.0
CSCI 130	Linux Fundamentals	3.0
CSIT 125	Computer Information Systems	3.0
CSIT 175	Python Programming	3.0
CSNT 250	Cyber Defense and Analysis	3.0
CSNT 255	Ethical Hacking Principles	3.0
CSNT 280	Computer Forensics Fundamentals	3.0
		Total: 24.0

Cybersecurity - A.S. Degree Major (18 units or more)

Computer Science & Information Systems Department

This program prepares students for a career in cybersecurity as a Cybersecurity Analyst. The program emphasizes competency in computer, network and application security for ensuring the security, confidentiality, integrity and availability of enterprise computing and information systems infrastructure. Students will develop skills in risk and vulnerability management as well as learn competencies in cyber defense and penetration testing strategies.

Learning Outcome(s):

1. Analyze the results of a network reconnaissance.
2. Compare and contrast the general purpose and reasons for using various cybersecurity tools and technologies.
3. Review security architecture and make recommendations to implement compensating controls.
4. Apply risk management techniques to manage risk, reduce vulnerabilities, threats, and apply appropriate safeguards/controls.
5. Implement or recommend the appropriate response and countermeasure for a network-based threat.

6. Defend a computer and a Local Area Network (LAN) against a variety of different types of security attacks using several hands-on techniques.

Program Requirements **Units:** 28.0

CSNT 110	Hardware and O.S. Fundamentals	4.0
CSNT 111	Networking Fundamentals	3.0
		3.0
CSNT 130	Linux Administration	3.0
OR		

CSCI 130	Linux Fundamentals	3.0
CSIT 125	Computer Information Systems	3.0
CSIT 175	Python Programming	3.0
CSNT 181	Hacker Prevention/Security	3.0
CSNT 250	Cyber Defense and Analysis	3.0
CSNT 255	Ethical Hacking Principles	3.0
CSNT 280	Computer Forensics Fundamentals	3.0

Total: 28.0

Cybersecurity Specialist - Certificate of Achievement (8-15 units)

Computer Science & Information Systems Department

This certificate prepares students for a career in cybersecurity as a Cybersecurity Specialist. The certificate emphasizes competency in computer networking, cybersecurity fundamentals, and python programming. Students will develop skills in risk and vulnerability management as well as learn competencies in cyber defense and information protection. Students will also develop critical thinking skills and programming fundamentals using python programming.

Learning Outcome(s):

1. Students will learn how to solve a cybersecurity issue using programming constructs to implement automated processes for analyzing an organizational defensive posture.

2. Students will analyze various types of hosts on a computer network, identify vulnerabilities that may be exploitable and develop a remediation plan to reduce cybersecurity risk.

Program Requirements **Units:** 12.0

CSNT 111	Networking Fundamentals	3.0
CSNT 181	Hacker Prevention/Security	3.0
CSIT 175	Python Programming	3.0
CSNT 250	Cyber Defense and Analysis	3.0

Total: 12.0

Dance: Emphasis in Euro-Western Dance - A.A. Degree Major or Certificate of Achievement (18 units or more)

Performing Arts Department

The Euro-Western Dance Program prepares the student for employment in the field of dance and dance-related professions. Both the degree and the certificate are designed as career/technical programs which provide students with the basic skills necessary for involvement in community dance activities, such as teaching in recreation centers, community centers and private studios; or performing or choreographing for community events. This degree and certificate also prepares dancers for the entertainment industry such as theme parks (Disney, Knotts Berry Farm, Legoland, Seaworld, Wild Animal Park), the music industry, as back-up dancers for musical artists, and a range of professional theatrical dance opportunities. Transfer students should consult the four-year college or university catalog for specific requirements or see a Palomar College counselor.

Learning Outcome(s):

1. Upon successful completion of the Program, students will be able to identify and evaluate the elements of various Euro-Western dance genres.
2. Upon successful completion of the program, students will be able to use the craft and tools of choreography to create, structure, teach, and clean their own choreography.

Program Requirements **Units:** 16.0-17.5

DNCE 102	The Hollywood Musical: Dance on Film	3.0
DNCE 145	Choreography I	3.0
DNCE 165	Production Management	1.5
DNCE 280	Student Choreography Production I	1.5
DNCE 161	Teaching Methods in Dance	3.0
DNCE 225	Contemporary Dance Ensemble I	1.0
Elective (select one of the following two courses)		1.0

DNCE 115	Ballet I	1.0
OR		
DNCE 210	Ballet III	1.0

Elective (select one of the following two courses)		1.0
DNCE 120	Jazz Technique I	1.0
OR		
DNCE 215	Jazz Technique III	1.0

Elective (select one of the following two courses)		1.0
DNCE 130	Tap I	1.0
OR		
DNCE 230	Tap III	1.0

Group I Electives - Ballet/Pointe (Select one course) **Units:** 1.0

DNCE 116	Ballet II	1.0
DNCE 211	Ballet IV	1.0
DNCE 117	Pointe I	1.0
DNCE 118	Pointe II	1.0
DNCE 217	Pointe III	1.0
DNCE 218	Pointe IV	1.0

Group II Electives - Modern (Select one course) **Units:** 1.0

DNCE 110	Modern Dance I	1.0
DNCE 111	Modern Dance II	1.0
DNCE 205	Modern Dance III	1.0
DNCE 206	Modern Dance IV	1.0

Group III Electives - Jazz or Tap (Select one course) — **Units:** 1.0

DNCE 131	Tap II	1.0
DNCE 231	Tap IV	1.0
DNCE 121	Jazz Technique II	1.0
DNCE 216	Jazz Technique IV	1.0

Group IV Electives - Production and Ensemble (Select two courses) — **Units:** 2.0

DNCE 270	Contemporary Ballet Production I	1.0
DNCE 272	Contemporary Ballet Production II	1.0
DNCE 271	Classical Ballet Production I	1.0
DNCE 282	Classical Ballet Production II	1.0
DNCE 274	Contemporary Modern Dance Production I	1.0
DNCE 276	Contemporary Modern Dance Production II	1.0
DNCE 277	Classical Jazz Production I	1.0
DNCE 287	Classical Jazz Production II	1.0
DNCE 278	Modern Jazz Production I	1.0
DNCE 288	Modern Jazz Production II	1.0
DNCE 279	Tap Production I	1.0
DNCE 289	Tap Production II	1.0
DNCE 273	Modern Dance Production I	1.0

Group V Electives (Select one course) — **Units:** 0.5-3.0

DNCE 148	Afro-Cuban/Brazilian Drum and Dance Ensemble/Production I	0.5
DNCE 101	Survey of World Dance	3.0
DNCE 105	Introduction to Dance History	3.0
DNCE 155	Hip Hop I	1.0
DNCE 158	Hawaiian and Tahitian Dance I	0.5-1.0
DNCE 149	Afro-Cuban/Brazilian Dance I	1.0
MUS 137 / DNCE 137	Cuban and Brazilian Drumming I	0.5-1.0
DNCE 151	Latin Social Dance I	1.0
DNCE 153	Capoeira: Afro/Brazilian Martial Arts I	0.5-1.0

Total: 21.5-25.5

Dance: Emphasis in General Dance - A.A. Degree Major or Certificate of Achievement (18 units or more)

Performing Arts Department

The General Dance Program prepares the student for employment in the field of dance and dance-related professions. Both the degree and the certificate are designed as career/technical programs which provide students with the basic skills necessary for involvement in community dance activities, such as teaching in recreation centers, community centers and private studios; or performing or choreographing for community events. This degree and certificate also prepares dancers for the entertainment industry such as theme parks (Disney, Knotts Berry Farm, Legoland, Seaworld, Wild Animal Park), the music industry, as back-up dancers for musical artists, and a range of professional theatrical dance opportunities. Transfer students should consult the four-year college or university catalog for specific requirements or see a Palomar College counselor.

Learning Outcome(s):

1. Upon successful completion of the Program, students will be able to successfully identify the process of producing a dance concert, and finding and applying for dance related jobs.
2. Upon the completion of this program students will be able to synthesize theory and praxis as an ensemble member in a variety of performance settings

Program Requirements — **Units:** 20.5-21.5

DNCE 101	Survey of World Dance	3.0
DNCE 105	Introduction to Dance History	3.0
DNCE 145	Choreography I	3.0
DNCE 161	Teaching Methods in Dance	3.0
DNCE 165	Production Management	2.0-2.5
DNCE 280	Student Choreography Production I	1.5-2.0
Elective (select one of the following two courses)		1.0
DNCE 115	Ballet I	1.0
OR		
DNCE 210	Ballet III	1.0
DNCE 149	Afro-Cuban/Brazilian Dance I	1.0
DNCE 151	Latin Social Dance I	1.0
DNCE 148	Afro-Cuban/Brazilian Drum and Dance Ensemble/Production I	1.0
DNCE 225	Contemporary Dance Ensemble I	1.0

Group I Electives - Ballet/Pointe (Select one course) — **Units:** 1.0

DNCE 116	Ballet II	1.0
DNCE 211	Ballet IV	1.0
DNCE 117	Pointe I	1.0
DNCE 118	Pointe II	1.0
DNCE 217	Pointe III	1.0
DNCE 218	Pointe IV	1.0

Group II Electives - Afro-Cuban/Brazilian or Latin Social (Select one course) — **Units:** 1.0

DNCE 150	Afro-Cuban/Brazilian Dance II	1.0
DNCE 249	Afro-Cuban/Brazilian Dance III	1.0
DNCE 250	Afro-Cuban/Brazilian Dance IV	1.0
DNCE 152	Latin Social Dance II	1.0
DNCE 251	Latin Social Dance III	1.0
DNCE 252	Latin Social Dance IV	1.0

Group III Electives - Jazz or Tap (Select one course) — **Units:** 1.0

DNCE 120	Jazz Technique I	1.0
DNCE 121	Jazz Technique II	1.0
DNCE 215	Jazz Technique III	1.0
DNCE 216	Jazz Technique IV	1.0
DNCE 130	Tap I	1.0
DNCE 131	Tap II	1.0
DNCE 230	Tap III	1.0
DNCE 231	Tap IV	1.0

Group IV Electives - Hawaiian and Tahitian or Capoeira (Select one course) — **Units:** 0.5-1.0

DNCE 158	Hawaiian and Tahitian Dance I	0.5-1.0
DNCE 159	Hawaiian and Tahitian Dance II	0.5-1.0
DNCE 258	Hawaiian and Tahitian Dance III	0.5-1.0
DNCE 259	Hawaiian and Tahitian Dance IV	0.5-1.0
DNCE 153	Capoeira: Afro/Brazilian Martial Arts I	0.5-1.0
DNCE 154	Capoeira: Afro/Brazilian Martial Arts II	0.5-1.0
DNCE 253	Capoeira: Afro/Brazilian Martial Arts III	0.5-1.0
DNCE 254	Capoeira: Afro/Brazilian Martial Arts IV	0.5-1.0

Group V Electives - General Dance (Select one course)   **Units:** 0.5-3.0

DNCE 100	Survey of Dance	3.0
DNCE 102	The Hollywood Musical: Dance on Film	3.0
MUS 137 / DNCE 137	Cuban and Brazilian Drumming I	0.5-1.0
DNCE 155	Hip Hop I	1.0
DNCE 255	Hip Hop III	1.0
DNCE 173	Musical Theatre Scenes I	1.0
DNCE 226	Contemporary Dance Ensemble II	1.0
DNCE 248	Afro-Cuban/Brazilian Drum and Dance Ensemble/Production II	1.0

Total: 24.5-28.5

Dance: Emphasis in World Dance - A.A. Degree Major or Certificate of Achievement (18 units or more)

Performing Arts Department

The World Dance Program prepares the student for employment in the field of dance and dance-related professions. Both the degree and the certificate are designed as career/technical programs which provide students with the basic skills necessary for involvement in community dance activities, such as teaching in recreation centers, community centers and private studios; or performing or choreographing for community events. This degree and certificate also prepares dancers for the entertainment industry such as theme parks (Disney, Knotts Berry Farm, Legoland, Seaworld, Wild Animal Park), the music industry, as back-up dancers for musical artists, and a range of professional theatrical dance opportunities. Transfer students should consult the four-year college or university catalog for specific requirements or see a Palomar College counselor.

Learning Outcome(s):

1. Upon successful completion of the World Dance Program students will be able to identify and evaluate the elements of various world dance genres and their diverse histories.
2. Upon successful completion of the World Dance Program Students will be able to identify the vocabulary and successfully execute the movements of various World Dance genres.

Program Requirements   **Units:** 16.5-19.0

DNCE 101	Survey of World Dance	3.0
DNCE 149	Afro-Cuban/Brazilian Dance I	1.0
MUS 137 / DNCE 137	Cuban and Brazilian Drumming I	0.5
DNCE 151	Latin Social Dance I	1.0
DNCE 145	Choreography I	3.0
DNCE 280	Student Choreography Production I	1.5-2.0
Elective (select one of the following two courses)		0.5-1.0
DNCE 148	Afro-Cuban/Brazilian Drum and Dance Ensemble/Production I	0.5
OR		
DNCE 248	Afro-Cuban/Brazilian Drum and Dance Ensemble/Production II	1.0
DNCE 161	Teaching Methods in Dance	3.0
DNCE 165	Production Management	2.0-2.5
DNCE 153	Capoeira: Afro/Brazilian Martial Arts I	0.5-1.0
DNCE 158	Hawaiian and Tahitian Dance I	0.5-1.0

Group I Electives - Afro-Cuban/Brazilian (Select one course)   **Units:** 1.0

DNCE 150	Afro-Cuban/Brazilian Dance II	1.0
DNCE 249	Afro-Cuban/Brazilian Dance III	1.0
DNCE 250	Afro-Cuban/Brazilian Dance IV	1.0

Group II Electives - Latin Social (Select one course)   **Units:** 1.0

DNCE 152	Latin Social Dance II	1.0
DNCE 251	Latin Social Dance III	1.0
DNCE 252	Latin Social Dance IV	1.0

Group III Electives - Capoeira or Hawaiian and Tahitian (Select one course)   **Units:** 0.5-1.0

DNCE 237	Cuban and Brazilian Drumming III	0.5
DNCE 154	Capoeira: Afro/Brazilian Martial Arts II	0.5-1.0
DNCE 253	Capoeira: Afro/Brazilian Martial Arts III	0.5-1.0
DNCE 254	Capoeira: Afro/Brazilian Martial Arts IV	0.5-1.0
DNCE 159	Hawaiian and Tahitian Dance II	0.5-1.0
DNCE 258	Hawaiian and Tahitian Dance III	0.5-1.0
DNCE 259	Hawaiian and Tahitian Dance IV	0.5-1.0

Group IV Electives (Select one course not already taken)   **Units:** 0.5-3.0

MUS 137 / DNCE 137	Cuban and Brazilian Drumming I	0.5
MUS 138 / DNCE 138	Cuban and Brazilian Drumming II	0.5
DNCE 237	Cuban and Brazilian Drumming III	0.5
DNCE 238	Cuban and Brazilian Drumming IV	0.5
DNCE 102	The Hollywood Musical: Dance on Film	3.0
DNCE 105	Introduction to Dance History	3.0
DNCE 115	Ballet I	1.0
DNCE 120	Jazz Technique I	1.0
DNCE 130	Tap I	1.0
DNCE 155	Hip Hop I	1.0

Total: 19.5-25.0

Data Science - A.S. Degree Major (18 units or more)

Computer Science & Information Systems Department

Data Science (DS) is an interdisciplinary field that uses scientific methods, processes, algorithms, and systems to extract knowledge and insights from data. Data Science program focuses on the fundamentals of computer science, applied mathematics, probability, statistics, optimization, and machine learning while incorporating real-world examples. New computational and analytic approaches to a vast array of forms, scales, and sources of data are now critical to research, decision-making, and action.

The Palomar College AS in Data Science (DS) program is designed to give students a broad introduction to the field of data science, including mathematics and computational tools, to explore a broad range of data, and prepare them to transfer to a Bachelor of Science degree in DS program at a 4-year university.

Learning Outcome(s):

1. Apply computer science knowledge, concepts, and techniques to utilize programming languages, software tools to develop mathematical models, computational methods, and machine learning algorithms for exploring, analyzing, and making predictions from data.
2. Apply analytical concepts and techniques from calculus and linear algebra to analyze and solve problems in data science including but not limited to statistical inference, optimization, integration, and matrix operations.
3. Analyze real-world data sets to provide insights from both structured and unstructured data to ask appropriate questions about the data and interpret predictions based on their domain knowledge.
4. Demonstrate communication, teamwork, and project-based learning skills necessary to function effectively on teams to accomplish a common goal.
5. Students will address ethical issues arising in data science, including the moral obligations of preserving privacy; mitigating the risk of attack; avoiding bias in models and algorithms; maintaining data transparency to data subjects; among others.

Program Requirements   **Units:** 22.0-23.0

CSIT 175	Python Programming	3.0
CSIT 128	Foundations of Data Science	4.0
		3.0-4.0
CSCI 114	Programming Fundamentals II	4.0
OR		
CSIT 275	Advanced Python Programming	3.0
		5.0
MATH 140	Calculus with Analytic Geometry, First Course	5.0
OR		
MATH 140E	Calculus with Analytic Geometry, First Course Enhanced	5.0

		4.0
MATH 141	Calculus with Analytic Geometry, Second Course	4.0
OR		
MATH 141E	Calculus with Analytic Geometry, Second Course Enhanced	4.0
MATH 200	Introduction to Linear Algebra	3.0

Electives: Choose two courses from any of the three areas of emphasis (Domain Knowledge, Data Science, and Math). CSU and UC Data Science programs may have specific areas of domain knowledge required, check ASSIST.org and meet with a counselor for more information.   **Units:** 6.0-10.0

Domain Knowledge Electives

BIOL 200	Foundations of Biology I	4.0
BIOL 201	Foundations of Biology II	4.0
ECON 101	Principles of Economics (Macro)	3.0
ECON 102	Principles of Economics (Micro)	3.0
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0
STAT C1000	Introduction to Statistics	4.0
STAT C1000E	Introduction to Statistics	4.0

Data Science Electives

CSIT 165	R Programming	3.0
CSIT 226	Data Visualization	3.0
CSIT 230	Data Modeling	3.0
CSIT 275	Advanced Python Programming	3.0
CSCI 250	Introduction to Artificial Intelligence	4.0
CSCI 290	Introduction to Machine Learning	4.0

Math Electives

STAT C1000	Introduction to Statistics	4.0
OR		
STAT C1000E	Introduction to Statistics	4.0
MATH 205	Calculus with Analytic Geometry, Third Course	4.0
MATH 206	Calculus with Differential Equations	4.0
MATH 245	Discrete Mathematics	3.0

Total: 28.0-33.0

Deaf Studies - A.A. Degree Major (18 units or more)

Speech, Forensics, ASL Department

The Associate's Degree in Deaf Studies entails ASL courses in the first two years of ASL/Deaf studies, ASL 1-4, ASL 115 "Perspectives on Deafness", ASL 105 "Fingerspelling" and ASL 110 "Awareness of Deaf Culture". Students will develop ASL skills from a beginning to advanced level. They will also develop a strong foundation for understanding American Deaf Culture in order to facilitate their comfortable interaction and functionality within the deaf community.

Program Requirements		**Units:** 25.0
ASL 100	American Sign Language I	4.0
ASL 101	American Sign Language II	4.0
ASL 105	Fingerspelling and Number Systems	3.0
ASL 110	Awareness of Deaf Culture	3.0
ASL 115	Perspectives on Deafness	3.0
ASL 205	American Sign Language III	4.0
ASL 206	American Sign Language IV	4.0
		Total: 25.0

Diesel Technology - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

The Diesel Technology program at Palomar College gives the student an opportunity to gain the skills and knowledge needed for success in the challenging field of Diesel Technology, learning about servicing and maintaining diesel powered highway trucks, off-road heavy equipment, and stationary engines. The two-year program which leads to a Certificate of Achievement can also be applied towards an Associate in Science Degree in Diesel Technology.

Learning Outcome(s):

1. Technicains will be able to conduct basic maintenance, repair and troubleshooting of: Engines Transmissions, Differentials and drivelines Suspensions Air brake systems Hydraulic Systems Electrical systems (12 volt /24 volt) Equipment Inspections

Program Requirements		**Units:** 28.0
DMT 100	Introduction to Diesel Mechanics	4.0
DMT 105	Heavy-Duty Diesel Tune-Up and Engine Analysis	4.0
DMT 110	Heavy-Duty Electricity	4.0
DMT 120	Air Brake Systems	4.0
DMT 125	Truck Transmission And Drive Lines	4.0
DMT 200	Diesel Engine Rebuilding I	4.0
DMT 201	Diesel Engine Rebuilding II	4.0

Electives (Select 4 units)		**Units:** 4.0
AT 160	Associated Studies in Automotives	3.0
CE 100	Cooperative Education	0.5
DMT 115	Alternative Fuels	4.0
DMT 130	Medium-Duty Diesel Engine Tune-Up	4.0
DMT 135	Basic Hydraulics	4.0
WELD 100	Welding I	3.0
Mathematics (select up to one of the following)		3.0
IT 108 / WELD 108	Technical Mathematics	3.0
OR		
		3.0
MATH 100	Exploring Mathematics	3.0
OR		
MATH 100E	Exploring Mathematics Enhanced	3.0
		Total: 32.0

Digital Arts - Certificate of Proficiency (Less than 18 units)

Graphic Communications Department

Specific skills for the Digital Arts certificate include graphic design methodologies, including the design process, output production and presentation. The certificate prepares students to gain competence with the industry standard for digital imaging: Adobe Photoshop. Color, resolution, input and output, production process, photography and creativity are core competencies. Upon completion of the certificate, the student may find a job as a production artist, illustrator, graphic artist, or in digital imaging.

Learning Outcome(s):

1. Integrate digital imaging skills (photo enhancement, photo editing, photo compositing, creative digital skills, typography) into a final print document.
2. Apply the use of Smart Objects, Selections, Adjustment Layers and Blend Modes to create an advanced masking project constructed with proper perspective, dimensions, and resolution.
3. Assemble and arrange smart objects, adjustment layers, layer styles and/or effects to design and create a digital composition.
4. Demonstrate an intermediate skill level by applying blending modes, adjustment layers and selective color masking for image enhancement, tonal correction, and/or retouching and repairing.

Program Requirements		**Units:** 12.0
GCIP 140	Digital Imaging/Photoshop I	3.0
GCIP 141	Digital Imaging/Photoshop II	3.0
GCIP 240	Photoshop for Digital Imaging III	3.0
Elective (select one of the following three courses)		3.0
ARTD 150	Digital Concepts and Techniques in Art	3.0
OR		
PHOT 130	Photoshop for Photographers I	3.0
		Total: 12.0

Digital Imaging - A.S. Degree Major/Cert. Achievement (18 units or more)

Graphic Communications Department

Prepares students for entry-level position as creator and processor of digital imagery. Layout and creative position in multimedia, internet publishing, digital video, publishing, photography, and motion graphics.

Digital imaging is one of the basic requirements for all electronic communication delivery systems.

Learning Outcome(s):

1. Student will be able to utilize multiple applications, specifically Adobe Illustrator and Photoshop, to create large format projects for print (ie: Posters) in the proper resolutions and file formats.
2. Produce a web page that integrates graphics and typography, and if appropriate animaton, motion graphics, and sound.
3. Apply the use of Smart Objects, Selections, Adjustment Layers and Blend Modes to create an advanced masking project constructed with proper perspective, dimensions, and resolution.
4. Assemble and arrange smart objects, adjustment layers, layer styles and/or effects to design and create a digital composition.
5. Demonstrate an intermediate skill level by applying blending modes, adjustment layers and selective color masking for image enhancement, tonal correction, and/or retouching and repairing.

Program Requirements   **Units:** 26.0

GC 101	History of Graphic Communications	3.0
GCIP 140	Digital Imaging/Photoshop I	3.0
GCIP 141	Digital Imaging/Photoshop II	3.0
GCIP 240	Digital Imaging/Photoshop III	3.0
GCMW 102	Web Page Layout I	3.0
GCMW 115	Web Page Layout/WordPress I	2.0
GCMW 204	Motion Graphics for Multimedia	3.0
GCMW 205	Digital Video for Multimedia	3.0
PHOT 130	Digital Darkroom I	3.0

Electives (select one)   **Units:** 3.0

GCIP 152	Digital Publishing/Illustrator I	3.0
GCIP 168	Digital Imaging with Drones	3.0
GCIP 170	Screen Printing	3.0
GCMW 165	Digital Video Design	3.0
GCMW 201	Multimedia II	3.0
GCMW 205	Digital Video for Multimedia	3.0

Total: 29.0

Digital Media - Certificate of Proficiency (Less than 18 units)

Graphic Communications Department

This program encompasses digital video editing in digital media. The certificate prepares students for employment in the film, video, Internet, and television industries. Major growth in this industry is anticipated as Internet and television merge into one medium.

Learning Outcome(s):

1. Integrate digital motion graphic skills (digital imaging, digital video, digital video editing, creative digital skills) into a final film production.
2. Students will learn how to key green screen and shoot in a green screen studio.

Program Requirements   **Units:** 15.0

Elective (select one of the following two courses)		3.0
CINE 125 / DBA 125	Beginning Single Camera Film and Video Production	3.0
OR		
GCMW 165	Digital Video Design	3.0
CINE 170 / DBA 170	Introduction to Video Editing	3.0
DBA 270 / CINE 270	Advanced Video Editing	3.0
GCMW 204	Motion Graphics for Multimedia	3.0
GCMW 205	Digital Video for Multimedia	3.0

Total: 15.0

Digital Video - A.S. Degree Major/Cert. Achievement (18 units or more)

Graphic Communications Department

Digital Video encompasses editing and design in using digital media. This degree prepares students for employment in the film, video, Internet, television, and handheld industries.

Learning Outcome(s):

1. Use compositing techniques and industry standard equipment and technology to create realistic visual effects utilizing keyed green screen shots over graphics, stills, video and/or animation.
2. Integrate digital motion graphic skills (digital animation, compositing, sound, creative digital skills, typography) into a final film production.
3. Key green screen video over graphics, stills, animation to create a realistic composite.

Program Requirements   **Units:** 24.0

GCIP 140	Photoshop for Digital Imaging I	3.0
GCMW 165	Digital Video Design	3.0
GCMW 204	Motion Graphics for Multimedia	3.0
GCMW 205	Digital Video for Multimedia	3.0
DBA 120	Digital Television Studio Production	3.0
CINE 170 / DBA 170	Introduction to Video Editing	3.0
CINE 275 / DBA 275	Avid Editing for Television and Film	3.0
DBA 270 / CINE 270	Advanced Video Editing	3.0

Electives (2 courses required, 6 units minimum)   **Units:** 6.0

DBA 125	Beginning Single Camera Film and Video Production	3.0
DBA 240A	Basic Television News/Sports	3.0
DBA 230	Digital Audio Avid Pro Tools	3.0

ARTI 246	Digital 3D Design and Modeling	3.0
ARTI 247	Digital 3D Design and Animation	3.0
DBA 110	Broadcast and Media Writing	3.0
CINE 225 / DBA 225	Intermediate Single Camera Film and Video Production	3.0
GCIP 141	Photoshop for Digital Imaging II	3.0
GCIP 152	Digital Publishing/Illustrator I	3.0

GCIP 168	Digital Imaging with Drones	3.0
GCIP 240	Photoshop for Digital Imaging III	3.0
GCMW 101	Multimedia I	3.0
GCMW 201	Multimedia II	3.0

Total: 30.0

Drafting and Design CADD/CAM Technology - A.S. Degree Major/Cert. Achievement (18 units or more)

Design and Manufacturing Technologies Department

The Drafting and Design CADD/CAM Technology Program prepares students with 2D and 3D technical drafting and software skills necessary to form a robust foundation in Computer-Aided Drafting and Design (CADD) and Computer Aided Manufacturing (CAM) as it applies to the mechanical engineering field. The emphasis in this program is to attain software training on industry specific software. Additionally, students will learn CNC machining using MasterCAM software to better understand the manufacturing side of design. Students will design virtual parts on a computer screen and use computer numeric controls (CNC) machine tools to build parts. Completion of this program prepares students for entry level drafting employment using a variety of software programs typically used in local industry for 2D and 3D mechanical engineering drafting, design and manufacturing.

Learning Outcome(s):

1. Demonstrate CAD software expertise by drafting complex mechanical engineering industry standard drawings using software such as AutoCAD, SolidWorks, Creo and MasterCAM.

2. Demonstrate advanced modeling techniques to create complex 2D and 3D drawings.
3. Build mechanical parts using a computer numeric control (CNC) machine(s).

Program Requirements:		**Units:** 24.0
DT 101	AutoCAD I	3.0
DT 102	AutoCAD II	3.0
DT 103	SolidWorks I	3.0
DT 104	SolidWorks II	3.0
DT 114	Creo Parametric I	3.0
DT 115	Creo Parametric II	3.0
MACH 190	CNC Machining / MasterCAM I	3.0
MACH 191	CNC Machining MasterCam II	3.0

Total: 24.0

Drone Applications and Technologies - A.S. Degree Major (18 units or more)

Graphic Communications Department

This program will prepare students to become remote pilots or entrepreneurs in fields that currently deploy Drones / Unmanned Aircraft Systems (UAS) in their operations. These fields include environmental science and management, real estate, journalism, search and rescue, agriculture, disaster response and management, and cultural resource management among others. This program will provide students with skills in UAS operations as well as the knowledge necessary to plan, create, and develop a UAS based business.

Learning Outcome(s):

1. Use intelligent mission planning modes to script out flight paths for image capture.
2. Demonstrate successful mission planning, drone operation and image capture of mapping project within two hours of solar noon, and use photogrammetry software to post-process.
3. Differentiate between the airspace classes with an emphasis on controlled vs uncontrolled, shape, and aircraft allowed.

Program Requirements		**Units:** 20.0
GCIP 140 OR PHOT 120		3.0
GCIP 140	Photoshop for Digital Imaging I	3.0
OR		
PHOT 120	Digital Photography	3.0
GCIP 168	Digital Imaging with Drones	3.0
GCIP 268	Digital Imaging with Drones II	3.0

GEOG 140	Introduction to Remote Sensing and Drone Data Processing	3.0
GEOG 120	Digital Earth: Introduction to Geographic Information Systems	4.0
BMGT 153	Small Business Entrepreneurship	3.0
Elective (select one of the following two courses)		1.0
CE 150	Cooperative Education Internship	1.0
OR		
CE 100	Cooperative Education	1.0

Select two courses:		**Units:** 4.0-8.0
GEOG 145	LiDAR Data Processing and GIS Integration	1.0
GEOG 132	Database Management and Data Acquisition	4.0
ENGR 126	Introduction to Electrical and Computer Engineering	4.0
GCMW 165	Digital Video Design	3.0
BUS 152	Social Media for Business	3.0
GCMW 205	Digital Video for Multimedia	3.0

Total: 24.0-28.0

Drone Operations - Certificate of Achievement (12-17 units)

Earth, Space and Environmental Sciences Department

Drones or Unmanned Aircraft Systems (UAS) are aircraft that can be controlled remotely by a pilot or flown autonomously on a pre-programmed route.

UAS have broad applications in a number of fields. Key areas of focus in this certificate are the applications of UAS in photography, videography, mapping, remote sensing and photogrammetry. Typical employment opportunities associated with the operations of UAS include aerial photographer and videographer, mapping technician, and precision agricultural science technician.

Students planning to pursue careers in UAS operation within the aforementioned fields are encouraged to earn the Drone Operations Certificate of Achievement. This certificate is ideal for students eager to obtain entry level employment at a number of private and public organizations by earning a career technical certificate.

Learning Outcome(s):

1. Students will evaluate the hardware and software required by different sectors in the unmanned aircraft system industry.
2. Students will apply the Federal Aviation Administration's guidelines on UAS operations in order to acquire and process UAS data safely and legally.

Program Requirements		**Units:** 17.0
PHOT 120	Digital Photography	3.0
GCIP 168	Digital Imaging with Drones	3.0
GEOG 120	Digital Earth: Introduction to Geographic Information Systems	4.0
GCIP 268	Digital Imaging with Drones II	3.0
GEOG 140	Introduction to Remote Sensing and Drone Data Processing	3.0
GEOG 158	Small Unmanned Aircraft Systems Procedures and Regulations	1.0

Total: 17.0

Drone Operator I - Certificate of Achievement (8-15 units)

Graphic Communications Department

This certificate will prepare students to become entry level remote pilots in fields that currently deploy Drones / Unmanned Aircraft Systems (UAS) in their operations. These fields include environmental science and management, real estate, journalism, search and rescue, agriculture, disaster response and management, and cultural resource management among others. This certificate will provide students with skills in UAS operations and provides a good starting point for those who may wish to continue into the Drone Applications and Technologies A.S. Degree.

Learning Outcome(s):

1. Demonstrate successful drone operation and image capture.
2. Demonstrate successful mission planning, drone operation and image capture of mapping project within two hours of solar noon, and use photogrammetry software to post-process.

Program Requirements		**Units:** 10.0
GCIP 140	Photoshop for Digital Imaging I	3.0

Select both courses		4.0
GCIP 158	Small Unmanned Aircraft Systems Procedures and Regulations	1.0
AND		
GCIP 168	Digital Imaging with Drones	3.0
Select one course		3.0
GCMW 165	Digital Video Design	3.0
OR		
GCMW 205	Digital Video for Multimedia	3.0
OR		
GEOG 140	Introduction to Remote Sensing and Drone Data Processing	3.0

Total: 10.0

E-Marketing - A.S. Degree Major/Cert. Achievement (18 units or more)

Business Administration Department

This program combines business skills in marketing and advertising with technical skills in web design and digital media production. Students will develop a working knowledge of techniques used in e-marketing such as digital media design, search engine optimization, social networking, and other methods of creating digital content for driving website traffic.

Learning Outcome(s):

1. Gain working knowledge of techniques such as digital media design, search engine optimization, and social networking for creating digital content and driving website traffic.
2. Develop the skills necessary to promote their own small business in the Gig economy.

Program Requirements		**Units:** 20.0-21.0
BUS 155	Marketing	3.0
BUS 150	Advertising	3.0
BUS 152	Social Media for Business	3.0
Elective (select one of the following two courses)		3.0
BUS 125	Business English	3.0
OR		
BUS 205	Business Communication	3.0
GCIP 140	Photoshop for Digital Imaging I	3.0
GCMW 177	Search Engine Optimization (SEO) for Web Design	3.0
Elective (select one of the following two courses)		2.0-3.0
GCMW 115	Web Page Layout/WordPress I	2.0

OR GCMW 102	Web Page Layout I	3.0

Electives (Select 6 units)		**Units:** 6.0
BUS 100	Introduction to Business	3.0

FASH 125 / BUS 145	Retailing/Promotion	3.0
BUS 157	E-Commerce	3.0
BUS 183	Artificial Intelligence (A.I.) for Business	3.0
JOUR 200	Mastering Social Media	3.0
GCIP 141	Photoshop for Digital Imaging II	3.0
GCIP 240	Photoshop for Digital Imaging III	3.0

Total: 26.0-27.0

Early Childhood Education - AS-T Transfer Major (18 units or more)

Child Development Department

The Associate in Science in Early Childhood Education for Transfer includes a selection of courses designed to align with the lower division child development/early childhood education programs offered in the CSU system. The degree provides academic preparation to individuals for a career as an early childhood educator. The program will give students general knowledge and skills in theory, principles, and techniques for working with young children.

To obtain the Associate in Science in Early Childhood Education for Transfer, students must complete the following:

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
  - The California General Education Transfer Curriculum (Cal-GETC)
  - A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
  - Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is also an acceptable grade for courses in this major.

Students completing this degree program may enter the following careers (examples, but not limited to):

- Infant/Toddler lead or co-teacher
- Preschool lead or co-teacher
- Family childcare provider
- Early childhood community agency service provider or home visitor
- Early childhood curriculum specialist

Learning Outcome(s):

1. Developmental Milestones: Students will analyze developmentally appropriate curriculum and explain principles and practices pertaining to child development.
2. Environment: Students will be able to illustrate the connections between the child, families, and communities in child development.

3. Learning Environments: Students will integrate understandings of children's development and needs to develop and maintain healthy, safe, respectful, supportive and challenging learning environments for all children
4. Curriculum: Students will design, implement and evaluate curriculum activities that are based on observation and assessment of young children.
5. Guidance: Students will critically assess one's own teaching experiences to guide and inform practice.
6. Anti-bias Practices: Students will analyze various aspects of children's experiences as members of families targeted by social bias, considering the significant role of education in reinforcing or contradicting such experiences.
7. Observations: Students will complete systematic observations using a variety of methods of data collection to assess the impact of the environment, interactions, and curriculum on children's development and behavior.

Program Requirements		**Units:** 26.0-6.0
CHDV 100	Child Growth and Development	3.0-0.0
CHDV 101	Principles and Practices of Teaching Young Children	3.0-0.0
CHDV 105	Observation and Assessment	3.0-0.0
Elective (select one of the following three courses)		1.0-0.0
CHDV 105A	Observation, Assessment, and Participation Lab: Preschool	1.0-0.0
OR CHDV 105B	Observation, Assessment, and Participation Lab: Infant/Toddler	1.0-0.0
OR CHDV 105C	Observation, Assessment, and Participation Lab: Early Inclusion	1.0-0.0
CHDV 115	Child, Family, and Community	3.0
CHDV 120	Health, Safety, and Nutrition	3.0-0.0
EDUC 172 / CHDV 172	Teaching in a Diverse Society	3.0
CHDV 185	Introduction to Curriculum	3.0-0.0
CHDV 201	Practicum in Early Childhood Education	4.0-0.0

Total: 26.0-6.0

Economics - A.A. Degree Major or Certificate of Achievement (18 units or more)

Economics, History & Political Science Department

Provides lower division preparation for pursuing advanced studies in economics or prepares a complementary base for many professions and areas of interest including business administration, law, engineering, journalism, public administration, and environmental studies. Transfer students should consult the four?year college or

university catalog for specific requirements or see a Palomar College counselor.

Learning Outcome(s):

1. Identify themes and make connections to current events.

2. Evaluate data in various forms and explain the implications of the data.

Program Requirements　　　　　　　　　　　　　　**Units:** 6.0

ECON 101	Principles of Economics (Macro)	3.0
ECON 102	Principles of Economics (Micro)	3.0

Group I (Select 6 units)　　　　　　　　　　　　　**Units:** 6.0

ECON 110	Comparative Economic Systems	3.0
ECON 115	Economic History of the United States	3.0
ECON 120	Environmental Economics	3.0
ECON 125	Introduction to Labor Studies	3.0
ECON 295	Directed Study in Economics	3.0
IBUS 100	Introduction to International Business and Management	3.0

Group II (Select 8 units)　　　　　　　　　　　　**Units:** 8.0

		4.0
		4.0
MATH 110	College Algebra	4.0
OR		
MATH 110E	College Algebra Enhanced	4.0
OR		
		4.0
MATH 130	Calculus for Business and the Social Sciences	4.0
OR		
MATH 130E	Calculus for Business and the Social Sciences Enhanced	4.0
OR		
Statistics		4.0
STAT C1000	Introduction to Statistics	4.0
OR		
STAT C1000E	Introduction to Statistics	4.0

Group III (Select 3 units)　　　　　　　　　　　**Units:** 3.0

CSIT 105	Computer Concepts and Applications	3.0
PHIL 200	Critical Thinking	3.0

Total: 23.0

Economics - AA-T Transfer Major (18 units or more)

Economics, History & Political Science Department

The Associate in Arts in Economics for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in Economics. The Associate in Arts in Economics for Transfer provides lower division preparation for pursuing advanced studies in economics or prepares a complementary base for many professions and areas of interest including business administration, law, engineering, journalism, public administration, and environmental studies. Transfer students are strongly encouraged to take 6 units of Economic elective courses: Econ 110 (Comparative Economic Systems), Econ 115 (Economic History of the United States), Econ 120 (Environmental Economics), and/or Econ 125 (Introduction to Labor Studies).

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in the major.

Learning Outcome(s):

1. Evaluate data in various forms and explain the implications of the data.

Required Core (12-13 units)　　　　　　　　**Units:** 14.0-15.0

ECON 101	Principles of Economics (Macro)	3.0
ECON 102	Principles of Economics (Micro)	3.0
Statistics (select one of the following courses)		4.0
STAT C1000	Introduction to Statistics	4.0
OR		
STAT C1000E	Introduction to Statistics	4.0
Calculus Elective (select one of the following two courses)		4.0-5.0
		4.0-5.0
MATH 130	Calculus for Business and the Social Sciences	4.0
OR		
MATH 130E	Calculus for Business and the Social Sciences Enhanced	4.0
OR		
MATH 140	Calculus with Analytic Geometry, First Course	5.0
OR		
MATH 140E	Calculus with Analytic Geometry, First Course Enhanced	5.0

List A: Select One (3 Units)　　　　　　　　　　**Units:** 3.0

BUS 205	Business Communication	3.0
BUS 104	Business Information Systems	3.0
Computer Science Elective (select up to one of the following two courses)		3.0
CSIT 105	Computer Concepts and Applications	3.0
OR		
CSIT 125	Computer Information Systems	3.0

List B: Select one course from List A not already used or choose one course from the following: (3 units)	**Units:** 3.0
ECON 110	Comparative Economic Systems	3.0
ECON 115	Economic History of the United States	3.0

ECON 120	Environmental Economics	3.0
ECON 125	Introduction to Labor Studies	3.0
ECON 295	Directed Study in Economics	3.0

Total: 20.0-21.0

Electrical Engineering Drafting and Design Technology - A.S. Degree Major/Cert. Achievement (18 units or more)

Design and Manufacturing Technologies Department

The Electrical Engineering Drafting and Design Technology Program provides students with a foundation of electrical theory, electrical components, and hands-on practical skills necessary to layout and design printed circuit boards (PCB) using AutoCAD and Altium software. PCB layout, PCB materials, industrial materials, technical mathematics, component libraries, schematic concepts, design intent implementation, design rule creation, schematic capture, signal integrity, and transmission will be taught while adhering to industry standards. Students will learn to use basic electronics lab equipment such as oscilloscopes, power supplies, and signal generators. Students will be able to create an industry standard completed package of related drawings for fabrication, assembly and manufacturing of an advanced printed circuit board design. Completion of this program prepares students for entry level drafting employment in the electrical engineering drafting and design field.

Learning Outcome(s):

1. Compare and contrast industrial materials and their properties for the manufacturing of printed circuit boards.
2. Apply technical mathematics to circuit board design and layout.
3. Create a completed package of related drawings for circuit board fabrication.

Program Requirements		**Units:** 18.0
MACH 117	Blueprint Reading and Geometric Dimensioning and Tolerancing (GD+T)	3.0
DT 101	AutoCAD I	3.0
IT 108 / WELD 108	Technical Mathematics	3.0
DT 226	Printed Circuit Board Design I	3.0
DT 227	Printed Circuit Board Design II	3.0
MACH 228	Metallurgy and Industrial Materials	3.0

Total: 18.0

EMT Basic - Certificate of Proficiency (Less than 18 units)

Emergency Medical Education Department

This program prepares the student with the knowledge and skills necessary to take the National Registry EMT examination and enter the workforce in the State of California.

Learning Outcome(s):

1. Upon completion of the Emergency Medical Technician Program, the student will have developed the knowledge and skill necessary to demonstrate proficiency in the psychomotor skills necessary to fulfill the role of an entry level EMT.
2. Upon completion of the Emergency Medical Technician Program, the student will demonstrate competency by performing a thorough patient assessment and integrate basic pathophysiological principles and assessment findings to

formulate and execute a propoer treatment plan for a patient experiencing a medical and/or traumatic emergency according to current national, state, and San Diego County protocols.

Program Requirements		**Units:** 11.5
EME 105L	EMT Prep Lab	1.0
EME 105	EMT Prep	3.0
EME 106	Emergency Medical Technician (Lecture)	6.0
EME 106L	Emergency Medical Technician Skills (Laboratory)	1.5

Total: 11.5

Engineering - A.S. Degree Major (18 units or more)

Physics/Engineering Department

Provides the background to begin upper division coursework and will prepare the student for entry level jobs that require a knowledge of engineering and engineering related topics. The highly sequential nature of the engineering curriculum necessitates completion of lower division requirements before being admitted into upper division courses.

Engineering students are urged to give priority to the completion of major field requirements over the completion of general education requirements. Engineering lower division requirements are not the same for different universities. These institutions recommend that their particular lower division requirements be completed before transfer. Students should seek early assistance in planning their specific program from the Physics/Engineering Department, Counseling Department, or the Transfer Center.

Learning Outcome(s):

1. Students will build and analyze AC and DC circuits using mesh or node analysis.
2. Students will analyze and solve static and/or dynamic problems.

Program Requirements (Select a minimum of 11 units)		**Units:** 11.0
Elective (select one of the following two courses)		3.0
DT 101	AutoCAD I	3.0
OR		
DT 103	SolidWorks I	3.0
Elective (select one of the following two courses)		4.0

ENGR 126	Introduction to Electrical and Computer Engineering	4.0
OR		
ENGR 245	Properties of Materials	4.0
ENGR 210	Electrical Network Analysis	3.0
ENGR 210L	Electrical Network Analysis Lab	1.0
ENGR 235	Engineering Mechanics - Statics	3.0
ENGR 236	Engineering Mechanics - Dynamics	3.0

Electives (Select a minimum of 30 units) Note that mathematics courses are often prerequisite to engineering and physics courses.		**Units:** 30.0
MATH 140	Calculus with Analytic Geometry, First Course	5.0
MATH 141	Calculus with Analytic Geometry, Second Course	4.0

MATH 205	Calculus with Analytic Geometry, Third Course	4.0
MATH 206	Calculus with Differential Equations	4.0
PHYS 230	Principles of Physics	5.0
PHYS 231	Principles of Physics	5.0
PHYS 232	Principles of Physics	4.0
CHEM 110	General Chemistry	3.0
CHEM 110L	General Chemistry Laboratory	2.0
CHEM 115	General Chemistry	3.0
CHEM 115L	General Chemistry Laboratory	2.0

Recommended Elective:

ENGR 100	Introduction to Engineering	1.0

Total: 41.0

English - A.A. Degree Major (18 units or more)

English Department

Focuses on the English language and literatures in English. Provides the background for students to succeed in diverse fields, such as advertising and marketing, teaching, journalism and telecommunications, law, technical writing, and business administration. Prepares students for upper division course work in English. For specific transfer requirements, the student should consult an academic counselor or the catalog for the school to which he or she wishes to transfer.

Learning Outcome(s):

1. Analyze literary texts by using close-reading skills.
2. Discern and assess the interconnectedness of literature and human experience, including the ways in which writing defines, shapes, and reflects a culture's history and values.
3. Write clearly, precisely, and appropriately for a wide range of purposes and audiences.
4. Analyze works giving attention to historical, intellectual, and aesthetic details.
5. Evaluate expository and argumentative articles and essays through application of close-reading and critical thinking techniques.

Program Requirements **Units:** 7.0

ENG 205	Introduction to Literature	3.0
Critical Thinking Elective (select one of the following two courses)		4.0
ENGL C1001	Critical Thinking and Writing	4.0
OR		
ENG 203	Critical Thinking and Composition Through Literature	4.0

Literature Surveys (Select 9 units) Select either a two-semester survey of British literature or a semester each of British and United States literature.		**Units:** 9.0
ENG 210	Survey of British Literature I	3.0
ENG 211	Survey of British Literature II	3.0
ENG 220	Survey of World Literature I	3.0
ENG 221	Survey of World Literature II	3.0
ENG 225	Literature of the United States I	3.0
ENG 226	Literature of the United States II	3.0

Electives (Select 2 courses) Any of the above courses not previously taken or select from the following courses.		**Units:** 6.0-8.0
ENG 135	Introduction to Creative Writing	4.0
ENG 136	Intermediate Creative Writing	4.0
ENG 137	The Literary Magazine: History and Production	4.0
ENG 230	Introduction to the American Novel	3.0
ENG 250	Introduction to Shakespeare	3.0
ENG 255	Literature and Ideas	3.0
ENG 260	Literature through Film	3.0
ENG 270	Popular Literature	3.0
ENG 280	Women and Literature	3.0
ENG 290	Comic Books as Literature	3.0

Total: 22.0-24.0

English - AA-T Transfer Major (18 units or more)

English Department

The discipline of English focuses on the English language and literatures in English. It prepares students for transfer as an English major to a CSU or other four-year university and provides the background for students to succeed in diverse fields. For specific transfer requirements, the student should consult an academic

counselor or the catalog for the school to which he or she wishes to transfer.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is also an acceptable grade for courses in the major.

Learning Outcome(s):

1. Analyze literary texts by using close-reading skills.
2. Write clearly, precisely, and appropriately for a wide range of purposes and audiences.
3. Discern and assess the interconnectedness of literature and human experience, including the ways in which writing defines, shapes, and reflects a culture's history and values.
4. Describe and analyze how the rhetorical contexts and language of texts connect to their historical, intellectual, and aesthetic details.
5. Evaluate expository and argumentative articles and essays through application of close-reading and critical thinking techniques.

Program Requirements   **Units:** 7.0

Select One Option		
Option I		
ENGL C1001	Critical Thinking and Writing	4.0
AND		
ENG 205	Introduction to Literature	3.0
OR		
Option II		
ENG 203	Critical Thinking and Composition Through Literature	4.0

AND
One additional course from List B   3.0

List A (Select two courses)   **Units:** 6.0

ENG 210	Survey of British Literature I	3.0
ENG 211	Survey of British Literature II	3.0
ENG 220	Survey of World Literature I	3.0
ENG 221	Survey of World Literature II	3.0
ENG 225	Literature of the United States I	3.0
ENG 226	Literature of the United States II	3.0

List B (Select courses based on Option I or II completed above)   **Units:** 3.0-4.0

Select any two course(s) from List A not already used and/or select from the list below.

For Option I, select one course (3-4 units). For Option II, select two courses (6-7 units).

ENG 135	Introduction to Creative Writing	4.0
ENG 230	Introduction to the American Novel	3.0
ENG 250	Introduction to Shakespeare	3.0
ENG 255	Literature and Ideas	3.0
ENG 260	Literature through Film	3.0
ENG 270	Popular Literature	3.0
ENG 280	Women and Literature	3.0
ENG 290	Comic Books as Literature	3.0

List C (Select one course) Any course from List A or B not already used or select from the list below.   **Units:** 3.0-4.0

ENG 136	Intermediate Creative Writing	4.0
ENG 137	The Literary Magazine: History and Production	4.0
ENG 150	Introduction to Linguistics	3.0
HUM 100	Introduction to Humanities I	3.0

Total: 19.0-21.0

Entry Level MasterCAM Programmer - Certificate of Achievement (8-15 units)

Design and Manufacturing Technologies Department

The MasterCAM Entry Level Programmer Certificate of Achievement will provide students with the skill set needed to obtain employment as an Entry Level CNC Programmer. This certificate also provides an opportunity for current CNC Operators to advance their careers. Upon completion, students will have the knowledge and understanding of how to use CAM Software and to produce G-Code programs in order to run CNC Machines.

Learning Outcome(s):

1. Import CAD Files, create geometry, and manipulate WCS Planes using MasterCAM.
2. Create tool paths and post G-Code files for CNC Machines.

Program Requirements   **Units:** 9.0

MACH 125	Tooling Concepts	3.0
MACH 190	CNC Machining / MasterCAM I	3.0
MACH 191	CNC Machining MasterCam II	3.0

Total: 9.0

Entry-Level Gas Metal/Flux Cored Arc Weld - Certificate of Proficiency (Less than 18 units)

Trade & Industry Department

Provides the skills necessary for entry-level employment as a gas metal arc welder/flux cored arc welder.

Learning Outcome(s):

1. Successful students will identify, evaluate and effectively apply safety issues as they pertain to welding lab safety, occupational safety and personal safety.
2. Successful students will identify, evaluate and effectively demonstrate how to produce acceptable fillet and groove welds

in all positions using gas metal arc welding, flux cored arc welding.

3. Successful students will identify, evaluate and effectively demonstrate how to set-up, adjust, operate and shut down advanced parameters on, gas metal arc welding, flux cored arc welding equipment.

Program Requirements   **Units:** 15.0

IT 108 / WELD 108	Technical Mathematics	3.0
WELD 100	Welding I	3.0
WELD 120	Gas Metal Arc and Flux Cored Arc Welding	3.0
WELD 135	Print Reading for Welders	3.0
WELD 160	Metal Layout for Fabrication	3.0

Total: 15.0

Entry-Level Gas Tungsten Arc Welding - Certificate of Proficiency (Less than 18 units)

Trade & Industry Department

Introdution to GTAW, GMAW, and SMAW welding process with concentration on GTAW. Basic math, print reading, and layout skills and knowllede will be taught to prepare students for entry-level employment as a GTAW welder.

Learning Outcome(s):

1. Successful students will identify, evaluate and effectively apply safety issues as they pertain to welding lab safety, occupational safety and personal safety.
2. Successful students will identify, evaluate and effectively demonstrate how to produce acceptable fillet and groove welds in all positions using gas tungsten arc welding.

3. Successful students will identify, evaluate and effectively demonstrate how to set-up, adjust, operate and shut down advanced parameters on gas tungsten arc welding equipment.

Program Requirements   **Units:** 15.0

IT 108 / WELD 108	Technical Mathematics	3.0
WELD 100	Welding I	3.0
WELD 115	Gas Tungsten Arc Welding	3.0
WELD 135	Print Reading for Welders	3.0
WELD 160	Metal Layout for Fabrication	3.0

Total: 15.0

Entry-Level Shielded Metal Arc Welding - Certificate of Proficiency (Less than 18 units)

Trade & Industry Department

Provides the skills necessary for entry-level employment as a shielded metal arc welder.

Learning Outcome(s):

1. Successful students will identify, evaluate and effectively demonstrate how to produce acceptable fillet and groove welds in all positions using shielded metal arc welding.
2. Successful students will identify, evaluate and effectively apply safety issues as they pertain to welding lab safety, occupational safety and personal safety.
3. Successful students will identify, evaluate and effectively demonstrate how to set-up, adjust, operate and shut down advanced parameters on shielded metal arc welding equipment.

Program Requirements   **Units:** 15.0

IT 108 / WELD 108	Technical Mathematics	3.0
WELD 100	Welding I	3.0
WELD 110	Shielded Metal Arc Welding	3.0
WELD 135	Print Reading for Welders	3.0
WELD 160	Metal Layout for Fabrication	3.0

Total: 15.0

Environmental Studies - Certificate of Achievement (16 units or more)

Earth, Space and Environmental Sciences Department

The certificate provides an introduction to modern environmental issues and sustainability through relevant coursework in the physical sciences, life sciences, social sciences, and geographic information systems (GIS).

Learning Outcome(s):

1. Interpret climate variability over time and space.
2. Explain the implications of population growth and food production according to the classical Malthusian growth model.
3. Explain the implications of globalization for the environment.

Pralogram Requirements   **Units:** 16.0

GEOG 100	Earth's Dynamic Environment: Introduction to Physical Geography	3.0
GEOG 105	People and the Environment: Introduction to Human Geography	3.0
GEOG 120	Digital Earth: Introduction to Geographic Information Systems	4.0
BIOL 118	Introductory Biology: Ecology (Lecture)	3.0
PHSC 101	Principles of Physical Science	3.0

Total: 16.0

Fashion Design - A.S. Degree Major/Cert. Achievement (18 units or more)

Design and Manufacturing Technologies Department

Courses required for employment in the fashion industry; specifically in pattern making, sample work, fashion design, and illustration. Students should be aware that not all Fashion courses are offered every semester. See Class Schedule for additional information.

Learning Outcome(s):

1. Create a portfolio for entry level employment, or career advancement to excel in a fashion/sewn products career within a diverse, global industry.
2. Assess, propose, and apply various industry techniques related to pattern-making, drafting, draping, and constructing of garments.
3. Apply technical skills using relevant industry level equipment for garment/accessory design: design workroom systems, manufacturing procedures, and industrial sewing machines.
4. Apply new fashion industry procedures that are evolving; renewable and sustainable resources, innovative materials and new technologies
5. Calculate production costs to meet the needs of the target consumer and anticipate trends, while respecting the brand's image.

6. Create an individual, innovative original design collection, in the final year of the program, which may be showcased in the annual fashion show.

Program Requirements — **Units:** 30.0

FASH 100	Fashion Industry	3.0
FASH 105	Fashion Analysis and Clothing Selection	3.0
FASH 110	Textiles	3.0
FASH 130	History of Fashion/Costume	3.0
FASH 135	Introductory Sewing for Apparel	3.0
FASH 136	Advanced Sewing for Apparel	3.0
FASH 139	Pattern Making/Fashion Design	3.0
FASH 141	Advanced Pattern Making/Draping	3.0
FASH 145	Fashion Illustration and Presentation	3.0
FASH 148	Digital Design for Fashion	3.0

Total: 30.0

Fashion Merchandising - A.S. Degree Major/Cert. Achievement (18 units or more)

Design and Manufacturing Technologies Department

The Fashion Merchandising A.S. degree program provides students with an option for a career or the requisite foundation for transfer to a four-year college or university. Careers might include assistant buyer, assistant department manager, small store owner, visual merchandiser, advertising consultant, fashion coordinator, fashion stylist, promotion coordinator, sales associate, or manufacturer's sales representative.

Students should be aware that not all Fashion courses are offered every semester. See Class Schedule or Department for additional information.

Learning Outcome(s):

1. A program designed to prepare future personnel for employment in a fashion industry positions with an emphasis in fashion merchandising. Upon successful completion of this program the students will acquaint themselves with the nature and scope of the fashion industry, identify the fashion merchandising industry as a major global economic force, and examine the process of fashion from trend research to product development and promotion.

2. Prepare students who seek higher level education to further their academic study for transfer to a program or transfer to a 4 year college/university to continue their studies. (Active)

Program Requirements — **Units:** 30.0

FASH 100	Fashion Industry	3.0
FASH 105	Fashion Analysis and Clothing Selection	3.0
FASH 115	Visual Merchandising I	3.0
FASH 110	Textiles	3.0
FASH 120	Fashion Buying/Management II	3.0
FASH 125 / BUS 145	Retailing/Promotion	3.0
FASH 126	Fashion Show Presentation	3.0
FASH 130	History of Fashion/Costume	3.0
FASH 148	Digital Design for Fashion	3.0
FASH 175	Analysis, Evaluation, and Comparison of Ready-to-Wear	3.0

Total: 30.0

Fashion: Visual Merchandising - A.S. Degree Major/Cert. Achievement (18 units or more)

Design and Manufacturing Technologies Department

The Fashion Merchandising A.S. degree program provides students with an option for a career or the requisite foundation for transfer to a four-year college or university. Careers might include assistant buyer, assistant department manager, small store owner, visual merchandiser, advertising consultant, fashion coordinator, fashion stylist, promotion coordinator, sales associate, or manufacturer's sales representative.

Students should be aware that not all Fashion courses are offered every semester. See Class Schedule or Department for additional information.

Learning Outcome(s):

1. A program designed to prepare future personnel for employment in a fashion industry positions with an emphasis in fashion merchandising. Upon successful completion of this program the students will acquaint themselves with the nature and scope of the fashion industry, identify the fashion merchandising industry as a major global economic force, and examine the process of fashion from trend research to product development and promotion.

2. Prepare students who seek higher level education to further their academic study for transfer to a program or transfer to a 4 year college/university to continue their studies. (Active)

Program Requirements — **Units:** 29.0-29.5

FASH 100	Fashion Industry	3.0
FASH 105	Fashion Analysis and Clothing Selection	3.0
FASH 115	Visual Merchandising I	3.0
FASH 116	Visual Merchandising II	3.0
FASH 125 / BUS 145	Retailing/Promotion	3.0

FASH 126	Fashion Show Presentation	3.0
FASH 130	History of Fashion/Costume	3.0
FASH 148	Digital Design for Fashion	3.0
Elective (select one of the following two courses)		1.5-2.0
FASH 195	Field Studies in Fashion	2.0
OR		

FASH 155	World of Fashion	1.5
CE 150	Cooperative Education Internship	0.5
ID 150 / ARCH 150	Beginning Computer Aided Drafting	3.0

Total: 29.0-29.5

Film, Television, and Electronic Media - AS-T Transfer Major (18 units or more)

Media Studies Department

The Associate in Science in Film, Television, and Electronic Media for Transfer (AS-T) prepares students to transfer to California State University campuses that offer bachelor's degrees in Film, Television, and Electronic Media. The degree prepares students to demonstrate basic understanding of broad film, television and electronic media trends as well as demonstrate the production craft skills for futher development at the university level. The degree is ideal for students who plan to transfer for further study to pursue a baccalaureate degree in Film, Television, and Electronic Media.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

4. Obtainment of a minimum grade point average of 2.0.

AS-Ts also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major.

Learning Outcome(s):

1. Interpret, evaluate, and analyze the historical context, cultural values and technological innovations of a variety of media forms while incorporating these norms into a multi-media production or presentation.
2. Write and produce scripts in a variety of formats for multi-media, film and broadcast products that adhere to professional standards
3. Student will be proficient in the operation of basic production equipment including cameras, sound recording equipment, lights, microphones and grip equipment.
4. Student will be proficient in the operation of post production equipment and software for the purposes of producing a variety of multi-media, film and broadcast products that adhere to professional standards

Required Core   **Units:** 6.0

Select one course from two of the three areas (6 units)		6.0
Communications & Media		3.0
COMM 100	Introduction to Mass Communication	3.0
OR		

DBA 100	Introduction to Radio and TV	3.0
Industry Writing		3.0
DBA 110	Broadcast and Media Writing	3.0
OR		
CINE 115 / DBA 115	Creative Writing for Television and Cinema	3.0
Cinema		3.0
CINE 100	Art of the Cinema	3.0

LIST A: Select one course from each area (6 units)   **Units:** 6.0

Area I: Audio		3.0
DBA 130	Radio Production	3.0
OR		
DBA 230	Digital Audio Avid Pro Tools	3.0

Area 2: Video or Film Production		3.0
DBA 120	Digital Television Studio Production	3.0
OR		
CINE 225 / DBA 225	Intermediate Single Camera Film and Video Production	3.0
OR		
CINE 125 / DBA 125	Beginning Single Camera Film and Video Production	3.0

LIST B: Select one course from below or any course not already used above.   **Units:** 3.0

CINE 170 / DBA 170	Introduction to Video Editing	3.0
ART 100	Introduction to Art	3.0
CINE 102	History of Film to 1945	3.0
CINE 103	History of Film 1945 - Present	3.0
PHOT 100	Black and White Film Photography	3.0

LIST C: Select one course from below or any course not already used above.   **Units:** 3.0

DBA 135A	Basic Radio Station Operations	3.0
DBA 240A	Basic Television News/Sports	3.0
DBA 270 / CINE 270	Advanced Video Editing	3.0
DBA 298	Broadcast Internship	1.0

Total: 18.0

Fire Academy - Certificate of Achievement (18 units or more)

Public Safety Programs Department

Training to meet the requirements mandated by the California Office of State Fire Marshal for Certified Fire Fighter 1. Covers fire ground procedures, tactics, strategy, safety methods, fire dynamics, equipment usage and deployment, and subject material pertaining to the role of fire fighters within the fire service.

Prepares students for a career in the fire suppression/protection field. The student also receives additional certifications from the California State Fire Marshall's Office.

Learning Outcome(s):

1. Students will understand the firefighter role in the community, including knowledge of; firefighter safety, fire prevention,

building construction, fire protection systems, fire behavior, hazardous materials, ethics and morality and wildland fires.

Program Requirements		**Units:** 30.5
HE 104	Emergency Medical Responder	3.0
EME 106	Emergency Medical Technician (Lecture)	6.0
EME 106L	Emergency Medical Technician Skills (Laboratory)	1.5
FIRE 151	Fire Fighter I Academy	20.0
		Total: 30.5

Fire Technology - Emergency Management - A.S. Degree Major/Cert. Achievement (18 units or more)

Public Safety Programs Department

Prepares student for career in Emergency Management.

Learning Outcome(s):

1. Identify and assess hazards in the community to make disaster resilient communities to protect life and property.
2. Define the role of the emergency manager in preparing for and mitigating the effects of hazards in the community.

Program Requirements		**Units:** 21.0
FIRE 100	Fire Protection Organization	3.0
FIRE 115	Hazardous Materials I	3.0
FIRE 120	Building Construction for Fire Protection	3.0
FIRE 131	Introduction to Emergency Management	3.0
FIRE 132	Disaster Response And Recovery	3.0
FIRE 133	Disaster Mitigation	3.0
FIRE 142	Fire Ethics	3.0

Electives (Select 12 Units)		**Units:** 12.0
FIRE 51	Fire Academy Preparation	3.0
FIRE 101	Firefighter Safety	3.0
FIRE 118	Fire Prevention Technology	3.0
FIRE 130	Fire Protection Equipment and Systems	3.0
FIRE 151	Fire Fighter I Academy	20.0
FIRE 160	Wildland Fire Control I	3.0
FIRE 165	Fundamentals of Fire Protection Chemistry	3.0
FIRE 173	Legal Aspects of Emergency Services	3.0
		Total: 33.0

Fire Technology - General - A.S. Degree Major/Cert. Achievement (18 units or more)

Public Safety Programs Department

Prepares students for a career in fire suppression, fire prevention and/or fire protection.

Learning Outcome(s):

1. Define the firefighter role in the community, including knowledge of; firefighter safety, fire prevention, building construction, fire protection systems, fire behavior, wildland fires, hazardous materials, ethics and morality.
2. Demonstrate the fire department structure and command.

Program Requirements		**Units:** 21.0
FIRE 100	Fire Protection Organization	3.0
FIRE 101	Firefighter Safety	3.0
FIRE 118	Fire Prevention Technology	3.0
FIRE 120	Building Construction for Fire Protection	3.0
FIRE 130	Fire Protection Equipment and Systems	3.0
FIRE 142	Fire Ethics	3.0
FIRE 165	Fundamentals of Fire Protection Chemistry	3.0

Electives (Select 15 units)		**Units:** 15.0
FIRE 51	Fire Academy Preparation	3.0
FIRE 115	Hazardous Materials I	3.0
FIRE 131	Introduction to Emergency Management	3.0
FIRE 132	Disaster Response And Recovery	3.0
FIRE 133	Disaster Mitigation	3.0
FIRE 151	Fire Fighter I Academy	20.0
FIRE 160	Wildland Fire Control I	3.0
EME 106	Emergency Medical Technician (Lecture)	6.0
CE 100	Cooperative Education	0.5-4.0
FIRE 173	Legal Aspects of Emergency Services	3.0
		Total: 36.0

Foundations of Elementary Education - Certificate of Achievement (12-17 units)

Child Development and Education Department

This program includes a selection of courses that provides an academic foundation designed to introduce students into the profession of teaching, particularly in elementary education. The program will give students knowledge and skills in theory, principles, and techniques for working with students in kindergarten through grade 8. This program stacks into the Associate in Arts in University Studies: Elementary Education Preparation.

Learning Outcome(s):

1. Appraise theoretical models, curriculum methods, and the role of the teacher.
2. Evaluate implementation of STEAM design challenges with community and K-12 students.
3. Evaluate the ways that developmentally appropriate, inclusive, and anti-bias approaches support learning and development.

Program Requirements   **Units:** 15.0

CHDV 100	Child Growth and Development	3.0
EDUC 100	Foundations of Teaching as a Profession	3.0
EDUC 150	Teaching, Learning and Technology	3.0
EDUC 172 / CHDV 172	Teaching in a Diverse Society	3.0
Electives (Choose one)		3.0
CHDV 115 OR	Child, Family, and Community	3.0
CHDV 120 OR	Health, Safety, and Nutrition	3.0
CHDV 185	Introduction to Curriculum	3.0

Total: 15.0

French - A.A. Degree Major or Certificate of Achievement (18 units or more)

World Languages Department

This degree will provide required course work for students majoring in French. In addition, completing the course work will meet the foreign language competency requirements at many colleges and universities. Students may receive humanities credit on general education patterns for both the CSU and UC systems. It will also provide instruction for students seeking foreign language skills for personal development.

Learning Outcome(s):

1. Upon successful completion of this program, students will be able to write clear detailed text on a range of subjects passing on information or giving reasons in support of or against a particular point of view. Students will be able to write letters, essays or reports highlighting the personal significance of events and experiences and compare and contrast their own culture with that of the French speaking world.
2. Upon successful completion of the program, students will be able to interact with a degree of fluency and spontaneity that makes interaction with native speakers possible. Students will be able to take an active part in discussions on familiar topics. Students will be able to present facts and opinions, compare and contrast cultural differences, explain a viewpoint on a topical issue and argue the advantages and disadvantages of various options.
3. Upon successful completion of the program, students will be able to interact with a degree of fluency and spontaneity that makes interaction with native speakers possible. Students will be able to take an active part in discussions on familiar topics. Students will be able to present facts and opinions, compare and contrast cultural differences, explain a viewpoint on a topical issue and argue the advantages and disadvantages of various options.
4. Upon successful completion of the program, students will be able to comprehend written materials such as articles, reports and simple literary texts that address contemporary issues of the French speaking world. Students will be able to identify and evaluate the writers' particular attitudes and viewpoints.

Program Requirements   **Units:** 20.0

FREN 101	French I	5.0
FREN 102	French II	5.0
FREN 201	French III	5.0
FREN 202	French IV	5.0

Recommended Electives

FREN 140	Basic French Pronunciation	1.0

Total: 20.0

Gender, Sexuality and Women's Studies - A.A. Degree Major (18 units or more)

Behavioral Sciences Department

This major offers students an interdisciplinary perspectives on the formation of gender and sexuality and the intersections with other relations of power, such as race, class, nationality, religion, and age. It also provides intensive, interdisciplinary lower-division preparation necessary for pursuing advanced coursework in Gender and Sexuality Studies. Transfer students should consult the four-year college or university catalog for specific requirements.

Learning Outcome(s):

1. Describe and apply the major theoretical approaches to understanding gender, sexuality and the social experiences of women in history and culture.
2. Identify and analyze historical and cross-cultural differences in constructions of gender and sexuality within the United States with regard to race, ethnicity, religion, and social class.

Program Requirements   **Units:** 15.0

SOC 115	Introduction to Women's Studies	3.0
SOC 135	Gender and Society	3.0
SOC 175	Introduction to LBGTQI Studies	3.0
SOC 180	Social Justice Statistics	3.0
HIST 130	Women in United States History	3.0

Electives: Choose one course (3.0 units)   **Units:** 3.0

AIS 165	Native Women in the Americas	3.0
ANTH 105	Introduction to Cultural Anthropology	3.0
CS 140	Chicana History and Feminism	3.0
GBST 101	Introduction to Global Studies	3.0
GEOG 103	World Regional Geography	3.0
GEOG 105	People and the Environment: Introduction to Human Geography	3.0

ASL 205	American Sign Language III	4.0
FREN 201	French III	5.0
GERM 201	German III	5.0
ITAL 201	Italian III	5.0
JAPN 201	Japanese III	5.0
SPAN 201	Spanish III	5.0
SPAN 211	Spanish for Heritage Speakers I	5.0

Choose one course: **Units:** 4.0-5.0

Total: 22.0-23.0

General Business - A.S. Degree Major (18 units or more)

Business Administration Department

The General Business degree provides a solid overview of business fundamentals and can prepare students for entry-level work in various industries. Students choose an emphasis area allowing them to tailor this degree to their individual interests. Once completed, students will have the problem solving, communication, and creative skills needed to thrive in the business world.

Learning Outcome(s):

1. Employ the tactical and strategic skills needed for entry-level work in business.
2. Describe and apply business concepts across major functional areas of business.

Program Requirements **Units:** 19.0-20.0

BUS 100	Introduction to Business	3.0
Select one of the following two courses		3.0-4.0
ACCT 101	Bookkeeping	3.0
OR		
ACCT 201	Financial Accounting	4.0
Select one of the following two courses		3.0
BUS 125	Business English	3.0
OR		
BUS 205	Business Communication	3.0
CSIT 105	Computer Concepts and Applications	3.0
BUS 110	Business Mathematics	3.0
BUS 117	Legal Environment of Business	3.0
BUS 173	Contemporary Job Search Techniques	1.0

Choose An Emphasis Area: **Units:** 8.5-12.0

Advertising and Marketing Emphasis		12.0
BUS 155	Marketing	3.0
BUS 152	Social Media for Business	3.0
BUS 150	Advertising	3.0

Choose one:		3.0
BUS 157	E-Commerce	3.0
OR		
FASH 125 / BUS 145	Retailing/Promotion	3.0

Business Management Emphasis		12.0
		3.0
BMGT 101	Introduction to Management	3.0
BUS 138	Business Ethics	2.0
BMGT 130	Management/Leadership Issues	3.0
Choose one:		1.0
BUS 175	Excel Basic	1.0
OR		
BUS 176	Excel Intermediate	1.0
OR		
BUS 177	Excel Advanced	1.0

International Business Emphasis		12.0
IBUS 100	Introduction to International Business and Management	3.0
BUS 130	Principles of Supply Chain Management	3.0
BUS 129	Principles of Logistics	3.0
IBUS 120	Essentials of Import/Export Procedures	3.0

Small Business Entrepreneurship Emphasis		8.5
BMGT 153	Small Business Entrepreneurship	3.0
ACCT 110	Quickbooks	2.0
CE 100	Cooperative Education	0.5
Choose one:		3.0
BUS 152	Social Media for Business	3.0
OR		
BUS 155	Marketing	3.0

Total: 27.5-32.0

General Studies: Emphasis in Arts and Humanities - A.A. Degree Major (18 units or more)

General Education Department

This program is designed for students who may not be planning to transfer to a four-year college and who need to explore possibilities before committing themselves to a major program. The program may serve the purposes of students who have been out of school and who need to review and assess their academic skills and interests before deciding on a definite major program. Students planning to transfer to a four-year institution are cautioned that this curriculum may not provide for completion of the lower-division requirements for transfer to a four-year institution.

Program Requirements **Units:** 18.0

Select 18 units from the following areas		18.0

American Indian Studies

AIS 100	Introduction to American Indian Studies	3.0
AIS 104	The Music of Native America	3.0
AIS 105	History of Native American Arts	3.0

AIS 108A	Elementary Luiseno IIA	3.0
AIS 108B	Elementary Luiseno IIB	3.0
AIS 135	California Indian Arts	3.0
AIS 145	American Indian Literature	3.0
AIS 150	American Indian Philosophy and Religion	3.0
AIS 166A	Elementary Cahuilla IA	3.0
AIS 166B	Elementary Cahuilla IB	3.0
AIS 167A	Elementary Cahuilla IIA	3.0
AIS 167B	Elementary Cahuilla IIB	3.0
AIS 207A	Luiseno IIIA	3.0
AIS 266A	Cahuilla IIIA	3.0
AIS 266B	Cahuilla IIIB	3.0

American Sign Language   **Units:** 19.0

ASL 100	American Sign Language I	4.0
ASL 101	American Sign Language II	4.0
ASL 110	Awareness of Deaf Culture	3.0
ASL 205	American Sign Language III	4.0
ASL 206	American Sign Language IV	4.0

American Studies

| AMS 100 | American Culture and Identity | 3.0 |
| AMS 105 | American West: Images and Identities | 3.0 |

Anthropology

| ANTH 135 | Magic, Witchcraft, and Religion | 3.0 |
| CS 155 / ANTH 155 | Ancient Civilizations of Meso-America | 3.0 |

Arabic

ARAB 101	Arabic I	5.0
ARAB 102	Arabic II	5.0
ARAB 201	Arabic III	5.0

Architecture

ARCH 120	Architectural History	3.0
ARCH 121	Multicultural Architectural History	3.0
ARCH 122	History of Architectural Theory	3.0

Art

ART 100	Introduction to Art	3.0
ART 102	Foundations of Drawing	3.0
ART 104	Design and Composition	3.0
ART 105	Three-Dimensional Form and Design	3.0
ART 163	Arts of Asia	3.0
ART 164	Arts of Africa, Oceania and the Americas	3.0
ART 165	History of Art I - Survey of Western Art	3.0
ART 166	History of Art II - Survey of Western Art	3.0

Chicano Studies

| CS 100 | Introduction to Chicano Studies | 3.0 |
| CS 155 / ANTH 155 | Ancient Civilizations of Meso-America | 3.0 |

Chinese

CHIN 101	Chinese I	5.0
CHIN 102	Chinese II	5.0
CHIN 201	Chinese III	5.0

Cinema

CINE 100	Art of the Cinema	3.0
CINE 102	History of Film to 1945	3.0
CINE 103	History of Film 1945 - Present	3.0
CINE 110	Documentary Film	3.0
CINE 120	Film Criticism	3.0
CINE 122	Identity in American Film	3.0
CINE 123	Queer Cinema	3.0

Dance

DNCE 100	Survey of Dance	3.0
DNCE 101	Survey of World Dance	3.0
DNCE 102	The Hollywood Musical: Dance on Film	3.0
DNCE 105	Introduction to Dance History	3.0

Digital Broadcast Arts

| DBA 100 | Introduction to Radio and TV | 3.0 |

English

ENGL C1001	Critical Thinking and Writing	4.0
ENG 203	Critical Thinking and Composition Through Literature	4.0
ENG 205	Introduction to Literature	3.0
ENG 210	Survey of British Literature I	3.0
ENG 211	Survey of British Literature II	3.0
ENG 220	Survey of World Literature I	3.0
ENG 221	Survey of World Literature II	3.0
ENG 225	Literature of the United States I	3.0
ENG 226	Literature of the United States II	3.0
ENG 230	Introduction to the American Novel	3.0
ENG 250	Introduction to Shakespeare	3.0
ENG 255	Literature and Ideas	3.0
ENG 260	Literature through Film	3.0
ENG 270	Popular Literature	3.0
ENG 280	Women and Literature	3.0
ENG 290	Comic Books as Literature	3.0

Fashion

| FASH 130 | History of Fashion/Costume | 3.0 |

French

FREN 101	French I	5.0
FREN 102	French II	5.0
FREN 201	French III	5.0
FREN 202	French IV	5.0

German

GERM 101	German I	5.0
GERM 102	German II	5.0
GERM 201	German III	5.0
GERM 202	German IV	5.0

Graphic Communications

| GC 115 | Graphics and Media: A Multicultural Perspective | 3.0 |

History

| HIST 105 | History of Europe Through the Reformation | 3.0 |

HIST 106	History of Europe Since the Reformation	3.0

Humanities

HUM 100	Introduction to Humanities I	3.0
HUM 101	Introduction to Humanities II	3.0

Italian

ITAL 101	Italian I	5.0
ITAL 102	Italian II	5.0
ITAL 201	Italian III	5.0

Japanese

JAPN 101	Japanese I	5.0
JAPN 102	Japanese II	5.0
JAPN 130	Introduction of Japanese Culture and Literature	3.0
JAPN 201	Japanese III	5.0
JAPN 202	Japanese IV	5.0

Music

MUS 100	Music Appreciation	3.0
MUS 101	Survey of 20th Century Music	3.0
MUS 102	Introduction to Jazz	3.0
MUS 103	Fundamentals of Music	3.0
MUS 171	World Music	3.0

Philosophy

PHIL 111	Introduction to Philosophy	3.0
PHIL 113	Reasoning About Philosophical Issues	3.0
PHIL 114	Asian Philosophies	3.0
PHIL 116	Introduction to Logic	3.0
PHIL 121	Introduction to Ethics	3.0
PHIL 122	Social and Political Philosophy	3.0
PHIL 125	Philosophy of Human Nature	3.0
PHIL 126	Philosophy of Religion	3.0
PHIL 140	History of Ancient Philosophy	3.0
PHIL 141	History of Modern Philosophy	3.0
PHIL 200	Critical Thinking	3.0

PHIL 250	Philosophy in Literature	3.0

Photography

PHOT 125	History and Criticism of Photography	3.0

Reading

READ 110	Power Reading	4.0
READ 120	Critical Reading	3.0

Religious Studies

RS 101	World Religions	3.0
RS 105	Ritual/Symbol/Myth: Introduction to Religion	3.0
RS 108	History of Christianity	3.0
RS 110	Religion in America	3.0

Spanish

SPAN 101	Spanish I	5.0
SPAN 101A	Spanish IA	3.0
SPAN 101B	Spanish IB	3.0
SPAN 102	Spanish II	5.0
SPAN 201	Spanish III	5.0
SPAN 202	Spanish IV	5.0
SPAN 211	Spanish for Heritage Speakers I	5.0
SPAN 212	Spanish for Heritage Speakers II	5.0
SPAN 235	Intermediate Conversation and Writing	3.0

Speech

COMM C1000	Introduction to Public Speaking	3.0
SPCH 105	Beginning Argumentation and Critical Thinking	3.0
SPCH 115	Interpersonal Communication	3.0

Theatre Arts

TA 100	Introduction to the Theatre	3.0
TA 150	Dramatic Literature and Script Analysis	3.0

Total: 37.0

General Studies: Emphasis in Science and Mathematics - A.S. Degree Major (18 units or more)

General Education Department

This program is designed for students who may not be planning to transfer to a four-year college and who need to explore possibilities before committing themselves to a major program. The program may serve the purposes of students who have been out of school and who need to review and assess their academic skills and interests before deciding on a definite major program. Students planning to transfer to a four-year institution are cautioned that this curriculum may not provide for completion of the lower-division requirements for transfer to a four-year institution.

Learning Outcome(s):

1. Use quantitative reasoning skills.
2. Apply the scienfitic method.

Program Requirements   Units: 18.0

Select 18 units from the following areas	18.0

Anthropology

ANTH 100	Introduction to Biological Anthropology	3.0
ANTH 101	Introduction to Biological Anthropology	4.0

Astronomy

ASTR 100	Principles of Astronomy	3.0
GEOL 120 / ASTR 120	Planets, Moons, and Comets	3.0

Biology

BIOL 100	Introductory Biology: General Biology	4.0
BIOL 101	General Biology (Lecture)	3.0
BIOL 102	Introductory Biology: Pre-Nursing and Allied Health	4.0

BIOL 110	Human Genetics	3.0
BIOL 118	Introductory Biology: Ecology (Lecture)	3.0
BIOL 125	Introductory Biology: Botany	4.0
BIOL 126	Introductory Biology: Botany	3.0
BIOL 130	Introductory Biology: Marine Biology	4.0
BIOL 131	Introductory Biology: Marine Biology (Lecture)	3.0
BIOL 135	Introductory Biology: Marine Mammals	3.0
BIOL 140	Introductory Biology: Zoology	4.0
BIOL 145	Introduction to Anatomy and Physiology	3.0
BIOL 200	Foundations of Biology I	4.0
BIOL 201	Foundations of Biology II	4.0
BIOL 210	Anatomy	4.0
BIOL 211	Physiology	4.0
BIOL 212	Fundamentals of Microbiology	4.0

Business Education

BUS 110	Business Mathematics	3.0

Chemistry

CHEM 100	Fundamentals of Chemistry	4.0
CHEM 104	General Organic and Biochemistry	5.0
CHEM 105	Fundamentals of Organic Chemistry	4.0
CHEM 110	General Chemistry	3.0
CHEM 115	General Chemistry	3.0
CHEM 205	Introductory Biochemistry	3.0
CHEM 220	Organic Chemistry	5.0
CHEM 221	Organic Chemistry	5.0

CSIS-Information Technology

CSIT 105	Computer Concepts and Applications	3.0

Earth Science

ES 115 / GEOG 115	Natural Disasters and Environmental Hazards	3.0

Engineering

ENGR 210	Electrical Network Analysis	3.0

Geography

GEOG 100	Earth's Dynamic Environment: Introduction to Physical Geography	3.0
GEOG 110	Meteorology: Weather and Climate	3.0
ES 115 / GEOG 115	Natural Disasters and Environmental Hazards	3.0

Geology

GEOL 100	Physical Geology	3.0
GEOL 110	General Geology: National Parks and Monuments	3.0
GEOL 120 / ASTR 120	Planets, Moons, and Comets	3.0
GEOL 150	Dinosaurs and Earth History	3.0

Mathematics

MATH 100 OR	Exploring Mathematics	3.0

MATH 100E	Exploring Mathematics Enhanced	3.0
MATH 105	Concepts of Elementary Mathematics I	3.0
MATH 106	Concepts of Elementary Mathematics II	3.0

MATH 110 OR	College Algebra	4.0
MATH 110E	College Algebra Enhanced	4.0

MATH 115 OR	Trigonometry	3.0
MATH 115E	Trigonometry Enhanced	3.0

STAT C1000 OR	Introduction to Statistics	4.0
STAT C1000E	Introduction to Statistics	4.0

MATH 130 OR	Calculus for Business and the Social Sciences	4.0
MATH 130E	Calculus for Business and the Social Sciences Enhanced	4.0

MATH 135	Precalculus Mathematics	5.0

MATH 140 OR	Calculus with Analytic Geometry, First Course	5.0
MATH 140E	Calculus with Analytic Geometry, First Course Enhanced	5.0

MATH 141 OR	Calculus with Analytic Geometry, Second Course	4.0
MATH 141E	Calculus with Analytic Geometry, Second Course Enhanced	4.0

MATH 200	Introduction to Linear Algebra	3.0
MATH 205	Calculus with Analytic Geometry, Third Course	4.0
MATH 206	Calculus with Differential Equations	4.0
MATH 245	Discrete Mathematics	3.0

Nutrition

NUTR 165	Introduction to Human Nutrition	3.0
NUTR 185	Science of Human Nutrition	3.0

Oceanography

OCN 100	Oceanography Lecture	3.0

Physical Science

PHSC 101	Principles of Physical Science	3.0

Physics

PHYS 101	Introduction to Physics	4.0

PHYS 102	Introduction to Physics (Lecture)	3.0
PHYS 120	General Physics	4.0
PHYS 121	General Physics	4.0
PHYS 200	Fundamentals of Physics	5.0
PHYS 201	Fundamentals of Physics	5.0
PHYS 230	Principles of Physics	5.0
PHYS 231	Principles of Physics	5.0
PHYS 232	Principles of Physics	4.0

Psychology

SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0
PSYC 210	Physiological Psychology	4.0

Sociology

SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0

Total: 18.0

General Studies: Emphasis in Social and Behavioral Sciences - A.A. Degree Major (18 units or more)

General Education Department

This program is designed for students who may not be planning to transfer to a four-year college and who need to explore possibilities before committing themselves to a major program. The program may serve the purposes of students who have been out of school and who need to review and assess their academic skills and interests before deciding on a definite major program. Students planning to transfer to a four-year institution are cautioned that this curriculum may not provide for completion of the lower-division requirements for transfer to a four-year institution.

Learning Outcome(s):

1. Critical and Creative Thinking
2. Written and oral communication
3. Information Literacy

Program Requirements **Units:** 18.0

Select 18 units from the following areas		18.0

Administration of Justice

AJ 100	Introduction To Criminal Justice	3.0

Africana Studies

AS 100	Introduction to African American Studies	3.0
AS 101	African-American History I	3.0
AS 102	African-American History II	3.0
AS 120	Introduction to Africana Social Institutions and Behavior	3.0

Alcohol and Other Drug Studies

AODS 150 / PSYC 150 / SOC 150	Introduction to Alcohol and Other Drug Studies	3.0

American Indian Studies

AIS 101	History of American Indian Nations from Creation through the Present	3.0
AIS 102	The American Indian and the U.S. Political System	3.0
AIS 125	American Indians Today	3.0
AIS 130 / ANTH 130	Prehistoric Cultures of North America	3.0
AIS 140 / ANTH 140	The Original Californians	3.0
AIS 165	Native Women in the Americas	3.0

American Studies

SOC 200 / AMS 200 / MCS 200	Race, Class, and Ethnic Groups in America	3.0

Anthropology

ANTH 105	Introduction to Cultural Anthropology	3.0
ANTH 107	Language and Culture	3.0
ANTH 110	Introduction to Archaeology	3.0
ANTH 115	People and Cultures of the World	3.0
ANTH 125	Evolution, Science and Religion	3.0
ANTH 126	Cultures of Africa	3.0
AIS 130 / ANTH 130	Prehistoric Cultures of North America	3.0
ANTH 137	Medical Anthropology: Culture, Illness and Healing	3.0
AIS 140 / ANTH 140	The Original Californians	3.0

Business

BUS 136	Money Management and Planning for the Future	3.0

Chicano Studies

CS 101	United States History from a Chicano Perspective I	3.0
CS 102	United States History from a Chicano Perspective II	3.0

Child Development

CHDV 100	Child Growth and Development	3.0
CHDV 110	Introduction to Children with Disabilities	3.0
CHDV 115	Child, Family, and Community	3.0

Communications

COMM 100	Introduction to Mass Communication	3.0
COMM 105	Race, Gender and Media Effects	3.0

Counseling

COUN 110	College Success	3.0
COUN 115	Career/Life Planning	3.0
COUN 120	Quest for Identity and Life Skills	3.0
COUN 148	Managing Stress and Well-Being	3.0

Economics

ECON 100	Basic Economics	3.0
ECON 101	Principles of Economics (Macro)	3.0
ECON 102	Principles of Economics (Micro)	3.0
ECON 110	Comparative Economic Systems	3.0
ECON 115	Economic History of the United States	3.0
ECON 120	Environmental Economics	3.0
ECON 125	Introduction to Labor Studies	3.0

English

ENG 150	Introduction to Linguistics	3.0

Geography

GEOG 103	World Regional Geography	3.0
GEOG 105	People and the Environment: Introduction to Human Geography	3.0

Health

HE 100	Health Education and Fitness Dynamics	3.0

History

HIST 101	History of the United States Through Reconstruction	3.0
HIST 102	History of the United States Since Reconstruction	3.0
HIST 107	World History To 1650	3.0
HIST 108	World History Since 1650	3.0
HIST 121	History of California	3.0
HIST 130	Women in United States History	3.0
HIST 140	History of the Americas Through 1800	3.0
HIST 141	History of the Americas Since 1800	3.0
HIST 150	History of Latin America to 1824	3.0
HIST 151	History of Latin America from Independence to the Present	3.0

Legal Studies

LS 121	Introduction to Law	3.0
LS 240	Civil Liberties and Procedures	3.0

Multicultural Studies

MCS 100	Introduction to Multicultural Studies	3.0
SOC 200 / AMS 200 / MCS 200	Race, Class, and Ethnic Groups in America	3.0

Nutrition

NUTR 120	Food and Culture	3.0

Political Science

POSC 100	Introduction to Political Science	3.0
POLS C1000	American Government and Politics	4.0
POSC 110	Introduction to World Politics	3.0

Psychology

PSYC C1000	Introduction to Psychology	3.0
PSYC 105 / SOC 105	Marriage, Family and Intimate Relationships	3.0
PSYC 110	Developmental Psychology - Child Through Adult	3.0
PSYC 115	The Psychology of Personal Growth and Development	3.0
PSYC 120	Social Psychology	3.0
PSYC 125 / SOC 125	Human Sexuality	3.0
PSYC 130	Psychology of Gender	3.0
PSYC 145	Psychology and Sociology of Aging	3.0
AODS 150 / PSYC 150 / SOC 150	Introduction to Alcohol and Other Drug Studies	3.0
PSYC 225	Psychology of Abnormal Behavior	3.0
PSYC 235	Principles of Learning and Behavior Modification	3.0

Religious Studies

RS 102	Religion in American History	3.0
RS 108	History of Christianity	3.0

Sociology

SOC 100	Introduction to Sociology	3.0
PSYC 105 / SOC 105	Marriage, Family and Intimate Relationships	3.0
SOC 110	Social Problems	3.0
SOC 115	Introduction to Women's Studies	3.0
PSYC 125 / SOC 125	Human Sexuality	3.0
SOC 130	Introduction to Sociology of Health	3.0
SOC 135	Gender and Society	3.0
SOC 145 / PSYC 145	Psychology and Sociology of Aging	3.0
AODS 150 / PSYC 150 / SOC 150	Introduction to Alcohol and Other Drug Studies	3.0
SOC 165	Self and Society	3.0
SOC 200 / AMS 200 / MCS 200	Race, Class, and Ethnic Groups in America	3.0

Speech

SPCH 120	Human Communication	3.0
SPCH 131	Intercultural Communication	3.0

Note:

*Palomar College will accept a minimum of 3 units of ACE recommended credit for completion of Basic/Recruit Training. Refer to the Associate Degree District Requirements, under Health and Fitness or see a Counselor for more information.

Total: 18.0

Geographic Information Systems - Certificate of Achievement (8-15 units)

Earth, Space and Environmental Sciences Department

The Geographic Information Systems Certificate program is designed to provide entry-level training for students seeking employment in this fast-growing profession, or to upgrade the skills for those already working in the field of Geographic Information Systems. The program may be completed in one year including summer session.

Learning Outcome(s):

1. Design and execute tasks and workflows for GIS projects.
2. Perform GIS analyses and expand the basic GIS program interface.

Program Requirements		Units: 14.0
GEOG 120	Digital Earth: Introduction to Geographic Information Systems	4.0
GEOG 132	Database Management and Data Acquisition	4.0
GEOG 134	GIS Applications and Programming	2.0
GEOG 136	Intermediate ArcGIS: GIS Analysis	2.0
GEOG 138	GIS Internship	2.0
		Total: 14.0

Geography - AA-T Transfer Major (18 units or more)

Earth, Space and Environmental Sciences Department

The Associate in Arts in Geography for Transfer provides students with a comprehensive study of the earth from a spatial perspective. The field of geography includes several subfields. Physical geography is the study of natural phenomena such as weather, climate, geological formations, and the distribution of plants and animals. Human geography is the study of the spatial distribution of culture, language, religion, population, economics, and politics. Regional geography incorporates in-depth studies of specific geographic areas of the world. Cartography and Geographic Information Systems are analytical tools used in all subfields of geography.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
2. The California General Education Transfer Curriculum (Cal-GETC)
3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major.

Learning Outcome(s):

1. Students will analyze the geographic distribution of physical phenomena across the earth's surface.
2. Students will analyze the geographic distribution of cultural phenomena across the earth's surface.
3. Students will analyze the relationship of geographic phenomena over space and time.
4. Students will perform spatial analysis using tools such as maps, aerial photographs, and satellite images.

5. Students will analyze the interrelationship between people and their environment and how each impacts the other.

Program Requirements		Units: 6.0
GEOG 100	Earth's Dynamic Environment: Introduction to Physical Geography	3.0
GEOG 105	People and the Environment: Introduction to Human Geography	3.0

Electives: List A (Select 6 - 7 units)		Units: 6.0-7.0
GEOG 100L	Earth's Dynamic Environment: Physical Geography Lab	1.0
GEOG 103	World Regional Geography	3.0
GEOG 110	Meteorology: Weather and Climate	3.0
GEOG 120	Digital Earth: Introduction to Geographic Information Systems	4.0
GEOG 195	Regional Field Studies in Geography	1.0

Electives: List B (Select 6 units not previously used to satisfy List A)		Units: 6.0
ANTH 105	Introduction to Cultural Anthropology	3.0
GEOL 100	Physical Geology	3.0
GEOG 100L	Earth's Dynamic Environment: Physical Geography Lab	1.0
GEOG 103	World Regional Geography	3.0
GEOG 110	Meteorology: Weather and Climate	3.0
ES 115 / GEOG 115	Natural Disasters and Environmental Hazards	3.0
GEOG 120	Digital Earth: Introduction to Geographic Information Systems	4.0
GEOG 195	Regional Field Studies in Geography	1.0
		Total: 18.0-19.0

Geology - A.S. Degree Major (18 units or more)

Earth, Space and Environmental Sciences Department

Provides the student with sufficient background to begin upper division coursework and will prepare the student for entry-level jobs that require basic geologic knowledge. The student is advised to check with the school to which he/she may wish to transfer for additional courses which may be required.

Learning Outcome(s):

1. Analyze common rocks and their mineral constituents by using standard geologic references.
2. Determine and explain the tectonic and geomorphic processes involved in the formation of a specific landscape.

Group One	Units: 8.0

GEOL 100	Physical Geology	3.0
GEOL 100L	Geology Laboratory	1.0
GEOL 150	Dinosaurs and Earth History	3.0
GEOL 150L	Dinosaurs and Earth History Laboratory	1.0

Group Two (A minimum of 2 units from the following) **Units:** 2.0

GEOL 195A	Field Studies in Geology: Regional	1.0
GEOL 195B	Field Studies in Geology: Southern California Coastal Region	1.0
GEOL 195C	Field Studies in Geology: Salton Trough Region	1.0
GEOL 195D	Field Studies in Geology: Colorado Plateau Region	1.0
GEOL 195E	Field Studies in Geology: Sierra Nevada Region	1.0
GEOL 195F	Field Studies in Geology: Death Valley Region	1.0

Group Three (Select at least two of the three options) **Units:** 17.0-20.0

Option 1		4.0-5.0
MATH 140	Calculus with Analytic Geometry, First Course	5.0
OR		
MATH 140E	Calculus with Analytic Geometry, First Course Enhanced	5.0
OR		
		4.0
MATH 141	Calculus with Analytic Geometry, Second Course	4.0
OR		
MATH 141E	Calculus with Analytic Geometry, Second Course Enhanced	4.0

Option 2 (Students should choose courses in General Physics or Principles of Physics)		8.0-10.0
General Physics		

PHYS 120	General Physics	4.0
AND		
PHYS 121	General Physics	4.0
OR		
Principles of Physics		
PHYS 230	Principles of Physics	5.0
AND		
PHYS 231	Principles of Physics	5.0

Option 3		10.0
CHEM 110	General Chemistry	3.0
CHEM 110L	General Chemistry Laboratory	2.0
CHEM 115	General Chemistry	3.0
CHEM 115L	General Chemistry Laboratory	2.0

Group Four (Select at least 8 units from below or any courses not previously taken from Groups 2 or 3) **Units:** 8.0

Select from any courses in Groups Two or Three not previously taken, or:

BIOL 100	Introductory Biology: General Biology	4.0
GEOG 120	Digital Earth: Introduction to Geographic Information Systems	4.0
GEOL 110	General Geology: National Parks and Monuments	3.0
GEOL 120 / ASTR 120	Planets, Moons, and Comets	3.0
GEOL 197	Geology Topics	1.0-3.0
GEOL 295	Directed Study in Geology	1.0
MATH 205	Calculus with Analytic Geometry, Third Course	4.0
MATH 206	Calculus with Differential Equations	4.0
OCN 100	Oceanography Lecture	3.0
OCN 100L	Oceanography Laboratory	1.0
PHYS 232	Principles of Physics	4.0

Total: 35.0-38.0

Geology - AS-T Transfer Major (18 units or more)

Earth, Space and Environmental Sciences Department

Geology is the study of the dynamic processes that shape Earth. Geology incorporates a multidisciplinary approach to describe and solve a variety of problems, including those related to human interaction with natural systems, geologic hazards, and resources. Students who successfully complete this degree will be prepared for transfer into upper division coursework in geology and will meet transfer requirements for admission to CSU.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.

Learning Outcome(s):

1. Analyze common rocks and their mineral constituents by using standard geologic references.
2. Determine and explain the tectonic and geomorphic processes involved in the formation of a specific landscape.
3. Synthesize and communicate knowledge of geological concepts through written, oral and graphical representation.
4. Apply the scientific method using data to critically analyze, identify, understand and make a conclusion about natural phenomena.
5. Develop and demonstrate analytical and critical thinking skills required for transfer into a four year university.

Program Requirements **Units:** 27.0

GEOL 100	Physical Geology	3.0
GEOL 100L	Geology Laboratory	1.0
GEOL 150	Dinosaurs and Earth History	3.0
GEOL 150L	Dinosaurs and Earth History Laboratory	1.0
CHEM 110	General Chemistry	3.0
CHEM 110L	General Chemistry Laboratory	2.0
CHEM 115	General Chemistry	3.0
CHEM 115L	General Chemistry Laboratory	2.0
		5.0
MATH 140	Calculus with Analytic Geometry, First Course	5.0
OR		

MATH 140E	Calculus with Analytic Geometry, First Course Enhanced	5.0
		4.0
MATH 141	Calculus with Analytic Geometry, Second Course	4.0
OR		
MATH 141E	Calculus with Analytic Geometry, Second Course Enhanced	4.0

Additional Recommended Preparation

PHYS 230	Principles of Physics	5.0
PHYS 231	Principles of Physics	5.0
BIOL 100	Introductory Biology: General Biology	4.0

Total: 27.0

German - A.A. Degree Major or Certificate of Achievement (18 units or more)

World Languages Department

The degree will provide required course work for students majoring or minoring in German. In addition, completing the course work will meet the second language competency requirements at many colleges and universities. It will also provide instruction for students seeking language skills for personal development or travel.

To fulfill the A.A. Degree requirements or to receive the Certificate of Achievement, students must complete 20 units in German. Upon completion of this program, student will be able to interact with a degree of fluency and spontaneity at the intermediate level and will be able to demonstrate an understanding of the culture of the German speaking world.

Knowing German is a vital skill in countless career fields, given the relevance of German businesses to the global economy. German is relevant for students specializing in arts and humanities, including literature, theatre, history, art history and music, as well as the social and political sciences, education, business and international relations.

Learning Outcome(s):

1. Writing – Upon successful completion of this program, students will be able to write clear detailed text in German on a range of subjects passing on information or giving reasons in support of or against a particular point of view. Students will be able to write letters, essays or reports highlighting the personal significance of events and experiences and compare and contrast their own culture with that of the German speaking world.
2. Listening – Upon successful completion of the program, students will be able to understand the main points of standard speech and follow some complex lines of argument. Students will be able to understand the main points of German language radio, TV programs and film that address current affairs or topics of personal and professional interest. Students will be able to recognize the linguistic variations that exist within the German speaking world.
3. Speaking – Upon successful completion of the program, students will be able to interact with a degree of fluency and spontaneity that makes interaction with native German speakers possible. Students will be able to take an active part in discussions on familiar topics. Students will be able to present facts and opinions, compare and contrast cultural differences, explain a viewpoint on a topical issue and argue the advantages and disadvantages of various options.
4. Reading – Upon successful completion of the program, students will be able to comprehend materials written in German such as articles, reports and simple literary texts that address contemporary issues of the German speaking world. Students will be able to identify and evaluate the writers' particular attitudes and viewpoints.

Program Requirements: **Units:** 20.0

GERM 101	German I	5.0
GERM 102	German II	5.0
GERM 201	German III	5.0
GERM 202	German IV	5.0

Total: 20.0

Glassblowing - Certificate of Achievement (12-17 units)

Art Department

This certificate program is designed to prepare the student for a career in the glass arts industry through development of glassblowing skills, studio knowledge, and an understanding of contemporary and historical glass art production. The student will also gain professional development skills to produce and promote their artwork for the commercial market.

Learning Outcome(s):

1. Demonstrate process-specific actions and language in the production of hot glass objects covering tools, team coordination, vocabulary/commands, and process steps.
2. Prepare a portfolio of 10 images that demonstrates understanding of proper lighting, editing, and organization of artworks.

Program Requirements: **Units:** 12.0

ART 156	Glass Casting I	3.0
ART 160	Glassblowing/Glassforming I	3.0
ART 280	Glassblowing/Glassforming II	3.0
ART 290	Glassblowing/Glassforming III	3.0

Total: 12.0

Global Studies - AA-T Transfer Major (18 units or more)

Economics, History & Political Science Department

Global Studies is an interdisciplinary program whose mission is to provide students with knowledge about the world outside their own borders, so they are ready to engage in meaningful ways with an ever-changing global society.

The Associate in Arts in Global Studies for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in Global Studies.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
2. The California General Education Transfer Curriculum (Cal-GETC)
3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major.

Learning Outcome(s):

1. Be able to describe and explain how a student's own culture is one of many diverse cultures and how alternate perceptions and behaviors may be based in cultural differences.
2. Be able to analyze the interconnectivity of world geography, global issues, processes, trends and systems.
3. Be able to compare and contrast global cultures (beliefs, values, religions, arts, practices and philosophies) and understand how they developed.
4. Be able to interpret and analyze global issues from a variety of disciplinary perspectives, through the applicaiton of college-level analytical writing.

Required Core		Units: 6.0
GBST 101	Introduction to Global Studies	3.0
GBST 102	Global Issues	3.0

Area 1: Culture and Society		Units: 3.0
		3.0
ANTH 105	Introduction to Cultural Anthropology	3.0
OR		
HIST 108	World History Since 1650	3.0

Area 2: Geography		Units: 3.0
		3.0
GEOG 103	World Regional Geography	3.0
OR		
GEOG 105	People and the Environment: Introduction to Human Geography	3.0

Area 3: Humanities (Select one course)		Units: 5.0
FREN 202	French IV	5.0
GERM 202	German IV	5.0
ITAL 202	Italian IV	5.0
JAPN 202	Japanese IV	5.0
SPAN 202	Spanish IV	5.0
SPAN 211	Spanish for Heritage Speakers I	5.0

Area 4: Politics		Units: 3.0
POSC 110	Introduction to World Politics	3.0

Electives: (Select one course)		Units: 3.0
ECON 101	Principles of Economics (Macro)	3.0
ECON 102	Principles of Economics (Micro)	3.0
ENG 220	Survey of World Literature I	3.0
ENG 221	Survey of World Literature II	3.0
HIST 107	World History To 1650	3.0
HIST 130	Women in United States History	3.0
RS 101	World Religions	3.0

Total: 23.0

Graphic Communications - A.S. Degree Major/Cert. Achievement (18 units or more)

Graphic Communications Department

This certificate allows students to explore print, video and web with the opportunity to create their own branding and promotion. This also gives a strong graphic arts foundation.

Today's entrepreneurs must have an understanding of current trends in social media promoting through online video for hand held devices and streaming broadcast. Web functions allow the student to create an online presence. Print allows the student to create the product and/or service.

Learning Outcome(s):

1. Design projects for multiple printing output processes including screen-printing, wide format ink jet, and digital printing.
2. Combine text, graphics, and color (spot and CMYK) to produce a document with page layout software.
3. Create retouched and colorized photographs, understand resolution, use multiple layers, and color mode usage.

Program Requirements		Units: 20.0
GCIP 140	Digital Imaging/Photoshop I	3.0
GCIP 149	Page Layout and Design I	3.0
GCIP 152	Digital Publishing/Illustrator I	3.0
GCIP 172	Textile Screen Printing	3.0
GCIP 170	Screen Printing	3.0
GCMW 115	Web Page Layout/WordPress I	2.0
GCMW 165	Digital Video Design	3.0

Electives (select three courses)		Units: 9.0
GCIP 141	Digital Imaging/Photoshop II	3.0
GCIP 252	Digital Publishing/Illustrator II	3.0

GCMW 101	Multimedia I	3.0
GCMW 102	Web Page Layout I	3.0
GCMW 106	Multimedia for Social Networking	3.0
GCMW 204	Motion Graphics for Multimedia	3.0

GCMW 205	Digital Video for Multimedia	3.0
GCIP 105	Design for Print Production	3.0
GCIP 270	Commercial Screen Printing	3.0
GCMW 201	Multimedia II	3.0

Total: 29.0

Graphic Design - A.S. Degree Major (18 units or more)

Art Department

Prepares students in basic skills necessary to prepare a portfolio for application to Graphic Design, Environmental Design, and Packaging Design programs at 4 year schools. In addition, develops creative design ability and conceptual skills in the printed media, motion graphics, and web design.

Learning Outcome(s):

1. Student will develop design hierarchies and apply them to projects.
2. Student will understand and use elements of design to communicate visual concepts.
3. Students will understand time-based design methods, including two and three-dimensional processes.
4. Students will use appropriate software to generate and modify design projects.
5. Students will use critical analysis to evaluate visual concepts.

Program Requirements **Units:** 30.0

ART 104	Design and Composition	3.0
ART 166	History of Art II - Survey of Western Art	3.0

ART 200	Color Theory	3.0
ARTD 100	Graphic Design I	3.0
ARTD 150	Digital Concepts and Techniques in Art	3.0
ARTD 200	Graphic Design II - Lettering and Layout	3.0
ARTD 210	Typography Design	3.0
ARTD 220	Motion Design	3.0
ARTI 100	Concept Sketching	3.0
ARTI 246	Digital 3D Design and Modeling	3.0
Final Art Portfolio Review		

Electives (Select 6-7 units) **Units:** 6.0-7.0

ARTI 247	Digital 3D Design and Animation	3.0
ARTI 248	Digital 3D Design and Sculpture	3.0
ARTI 220	Illustration II, Digital Techniques	3.0
ART 120	Foundations of Life Drawing	3.0
PHOT 100	Black and White Film Photography	3.0
CE 100	Cooperative Education	0.5

Total: 36.0-37.0

Graphic Designer I - Certificate of Achievement (8-15 units)

Graphic Communications Department

Prepares students for entry level jobs in computer graphics, digital layouts, printing and publishing, using industry standard software and equipment.

Learning Outcome(s):

1. Integrate digital imaging skills (photo enhancement photo editing photo compositing, creative digital skills, typography) into a final print document,

2. Produce a standard printed product based on industry existing processes and procedures.

Program Requirements **Units:** 9.0

GCIP 140	Photoshop for Digital Imaging I	3.0
GCIP 149	Page Layout and Design I	3.0
GCIP 152	Digital Publishing/Illustrator I	3.0

Total: 9.0

Guitar Making Technology - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

Guitar Making Technology will prepare students to make a living or begin a career as a maker of guitars or as a guitar repair technician. Students will begin by gaining competency in basic woodworking processes including hand tool and power machine usage, finishing, and safety. During the course work students will construct a minimum of three instruments including a ukulele, an electric guitar and a steel string guitar. Business building is thoroughly covered. This is a demanding and highly technical program. Students are expected to be dedicated, determined and committed.

Learning Outcome(s):

1. Through the process of constructing several stringed instruments students will develop the expertise needed for employment in the luthier field
2. Students will analyze various construction techniques and demonstrate solutions for stringed instrument making by creating and using appropriate jigs, forms, and/or fixtures.

REQUIREMENTS **Units:** 22.0

CFT 100	Fundamentals of Woodworking	4.0
CFT 132A	Ukulele Making I/Tenor Ukulele	4.0
CFT 133A	Guitar Technician I/Set-Up	2.0
CFT 134A	Electric Guitar Construction I/Solid Body	4.0

CFT 135A	Acoustic Guitar Making I	4.0
CFT 149	Hand Joinery I	2.0
CFT 195	Finishing Technology/Touch-Up and Repair	2.0

CFT 128	Stringed Instruments Lab	0.5
CFT 132B	Ukulele Making II	3.0-5.0
CFT 133B	Guitar Technician II/Major Repair	2.0
CFT 134B	Electric Guitar Construction II/Custom	2.0
CFT 135B	Acoustic Guitar Making II	3.0

Electives (Select 2 or more units) **Units:** 2.0

Total: 24.0

History - AA-T Transfer Major (18 units or more)

Economics, History & Political Science Department

The Associate in Arts in History for Transfer (AA-T) includes a selection of courses designed to prepare students to transfer to California State University campuses that offer bachelor's degrees in History. The degree prepares students to demonstrate basic understanding of broad historiographical trends as well as helps to develop the tools to critically analyze primary and secondary sources. The degree is ideal for students who plan to transfer for further study to pursue a baccalaureate degree in history.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
2. The California General Education Transfer Curriculum (Cal-GETC)
3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is also an acceptable grade for courses in this major.

Learning Outcome(s):

1. Students will be able to effectively write and communicate history through development of complex historical ideas and critical analysis of historical facts/events.
2. Identify, analyze, and cite reliable primary and secondary sources that support the construction of historical arguments.
3. Evaluate and interpret major patterns and trends in history with a particular focus on causation, continuities, and change.

Required Core **Units:** 6.0

| HIST 101 | History of the United States Through Reconstruction | 3.0 |

| HIST 102 | History of the United States Since Reconstruction | 3.0 |

List A: Select two (6 units) **Units:** 6.0

Select one of the following		3.0
HIST 107	World History To 1650	3.0
OR		
HIST 105	History of Europe Through the Reformation	3.0

Select one of the following		3.0
HIST 108	World History Since 1650	3.0
OR		
HIST 106	History of Europe Since the Reformation	3.0

List B: Select one course from each area (6 units) **Units:** 6.0

Area 1 Diversity (3 units) or any List A course not already used:		3.0
HIST 160	History of the Middle East from 600 to the Present	3.0
HIST 140	History of the Americas Through 1800	3.0
HIST 141	History of the Americas Since 1800	3.0
HIST 150	History of Latin America to 1824	3.0
HIST 151	History of Latin America from Independence to the Present	3.0

Area 2 (3 units) or any List A course not already used:		3.0
HIST 121	History of California	3.0
HIST 130	Women in United States History	3.0

Total: 18.0

Illustration - A.S. Degree Major (18 units or more)

Art Department

Provides students with specific skills necessary to prepare a portfolio for application to Illustration programs at 4-year schools. In addition develops creative conceptual and Illustrative skills for use in advertising and story Illustration.

Learning Outcome(s):

1. Student will demonstrate competency in the use of language specific to professional Illustration assignments during presentations, and is able to understand and incorporate feedback communicated during critiques.
2. Student will demonstrate the ability to research, document, present, and relate to aesthetic and/or contextual source material and influences through the presentation of sketchbooks, journals or digital presentations.
3. Student will illustrate the ability to manifest the proper relationship of narrative, concept, representation, composition and technique as they relate to their original illustration.
4. Upon completion of the program students will demonstrate the understanding and technical competency to effortlessly navigate a range of interfaces, produce and manage digital 2D illustrations in pixel based environments at a professional level, and will be able to determine and apply the appropriate specifications and formats for digital or print output.

Program Requirements **Units:** 30.0

ART 104	Design and Composition	3.0
ART 120	Foundations of Life Drawing	3.0
ART 166	History of Art II - Survey of Western Art	3.0
ART 200	Color Theory	3.0
ARTD 150	Digital Concepts and Techniques in Art	3.0
ARTD 220	Motion Design	3.0
ARTI 100	Concept Sketching	3.0
ARTI 210	Illustration I - Rendering Techniques	3.0
ARTI 220	Illustration II, Digital Techniques	3.0
ARTI 246	Digital 3D Design and Modeling	3.0
Final Art Portfolio Review		

Electives (Select 6 units)		Units: 6.0
ART 121	Intermediate Life Drawing	3.0
ART 125	Introduction to Portraiture	3.0
ART 220	Introduction to Painting	3.0
ART 235	Watercolor Painting I	3.0
ARTD 100	Graphic Design I	3.0
ARTI 247	Digital 3D Design and Animation	3.0
ARTI 248	Digital 3D Design and Sculpture	3.0

Total: 36.0

Information Technology - A.S. Degree Major/Cert. Achievement (18 units or more)

Computer Science & Information Systems Department

This program prepares students for employment in information systems applications development in business and industry. The focus is on developing skills in programming languages, Internet, spreadsheets, databases, presentation graphics, word processing, and database design. See a counselor for additional university transfer requirements in this major.

Learning Outcome(s):

1. Analyze an information system problem, and identify and define the Information System requirements appropriate to its solution.
2. Apply computational foundations, algorithmic principles, and information systems theory in the modeling and design of IS-based systems in a way that demonstrates comprehension of the available solutions.
3. Use current techniques, skills, and tools necessary for the development of Information Systems solutions.
4. Recognize and apply professional, ethical, and social issues and responsibilities as they relate to Information Systems.

Program Requirements		Units: 24.0
CSIT 105	Computer Concepts and Applications	3.0
CSIT 125	Computer Information Systems	3.0
CSIT 150	Introduction to SQL	3.0
CSIT 175	Python Programming	3.0
CSIT 180	C# Programming I	3.0
CSIT 230	Data Modeling	3.0
CSWB 110	Web Site Development with HTML5/CSS3	3.0
CSWB 120	JavaScript and PHP	3.0

Electives (Select 1 course)		Units: 3.0
CSIT 275	Advanced Python Programming	3.0
CSIT 165	R Programming	3.0
CSNT 111	Networking Fundamentals	3.0
CSNT 150	AWS Academy Cloud Foundations	3.0

Total: 27.0

Interactive Media Design: Emphasis in 3D Modeling and Animation - A.S. Degree Major/Cert. Achievement (18 units or more)

Graphic Communications Department

Prepares students with specific skills necessary for employment in the field of multimedia design and production. Students may choose an emphasis in either 3D modeling and animation, which emphasizes production skills and authoring systems, or multimedia design, which emphasizes content development and visual design of multimedia productions. Both areas of emphasis collaborate on an actual multimedia production.

Learning Outcome(s):

1. Select appropriate tools and functions of the software to design and create a motion graphic template. GCMW 204
2. Incorporate green screen backgrounds that have been accurately removed to compose with other images, motion graphics, visual effects and video for a visual effect. GCMW 204

Program Requirements		Units: 24.0-18.0
ARTD 220	Motion Design	3.0

ARTI 100	Concept Sketching	3.0
ARTI 246	Digital 3D Design and Modeling	3.0
ARTI 247	Digital 3D Design and Animation	3.0
GCIP 141	Photoshop for Digital Imaging II	3.0-0.0
GCMW 204	Motion Graphics for Multimedia	3.0-0.0
ART 120	Foundations of Life Drawing	3.0
ARTI 248	Digital 3D Design and Sculpture	3.0

Electives (Select two courses)		Units: 6.0
GCMW 101	Multimedia I	3.0-0.0
GCIP 140	Photoshop for Digital Imaging I	3.0-0.0
GCIP 240	Photoshop for Digital Imaging III	3.0-0.0
ART 121	Intermediate Life Drawing	3.0

Total: 30.0-24.0

Interior Design - A.S. Degree Major (18 units or more)

Design and Manufacturing Technologies Department

Coordinated by educators and professional interior designers, this A.S. degree major offers an interdisciplinary approach to fundamental design, space planning, design analysis, and materials selection and specifications relating to residential and commercial spaces.

Learning Outcome(s):

1. Portfolio: Create a workforce ready portfolio using industry standard software,
2. Programing/Space Planning: Analyze programming requirements as they relate to the client and site.
3. Design: Create design concepts and solutions using hand drawing and industry standard software.
4. Materials: Analyze properties of materials and select appropriate finishes, furniture, and equipment.

Program Requirements   **Units:** 30.0

ID 100	Introduction to Interior Design	3.0
ARCH 105	Basic Architectural Drafting	3.0
ID 125	Presentation Methods in Interior Design	3.0
ID 150 / ARCH 150	Beginning Computer Aided Drafting	3.0
ID 170	Space Planning	3.0
ID 105	Materials and Resources	3.0
ID 145	Kitchen and Bath Design	3.0
ID 141	Commercial Interior Design	3.0
Choose One:		3.0
ID 151	Beginning Revit	3.0
OR		
ARCH 202	Introduction to Revit Architecture	3.0
ID 250	Interior Design Capstone	3.0

Total: 30.0

Interior Design - Certificate of Achievement (18 units or more)

Design and Manufacturing Technologies Department

Coordinated by educators and professional interior designers, this Certificate of Achievement offers an interdisciplinary approach to fundamental design, space planning, design analysis, and materials selection and specifications relating to residential and commercial spaces.

Learning Outcome(s):

1. Materials: Analyze properties of materials and select appropriate finishes, furniture, and equipment.
2. Portfolio: Create a workforce ready portfolio using industry standard software,.
3. Programming/Space Planning: Analyze programming requirements as they relate to the client and site.
4. Design: Create design concepts and solutions using hand drawing and industry standard software.

Program Requirements   **Units:** 30.0

ARCH 105	Basic Architectural Drafting	3.0
ID 100	Introduction to Interior Design	3.0
ID 105	Materials and Resources	3.0
ID 141	Commercial Interior Design	3.0
ID 145	Kitchen and Bath Design	3.0
ID 150 / ARCH 150	Beginning Computer Aided Drafting	3.0
ID 170	Space Planning	3.0
ID 250	Interior Design Capstone	3.0
Choose one:		3.0
ID 125	Presentation Methods in Interior Design	3.0
OR		
ARCH 145	Designing for Communication and Presentation	3.0
Choose one:		3.0
ID 151	Beginning Revit	3.0
OR		
ARCH 202	Introduction to Revit Architecture	3.0

Total: 30.0

International Business - Certificate of Achievement (12-17 units)

Business Administration Department

The International Business certificate will prepare students to work within a global economy in the fields of Import/Export, Logistics and Supply Chain and related fields. The four courses in this Certificate of Achievement stack up to the two-year General Business degree, so students will have already met the requirements of four of the courses in the two-year General Business degree when they complete this stand-alone Certificate of Achievement.

Learning Outcome(s):

1. Students will analyze differences in global supply chains and evaluate opportunities in international markets
2. Students will examine global economies and assess impacts to international business from the viewpoint of multi-culturalism.
3. Students will consider options and compare technological approaches used to manage the flow of goods and services through international zones.
4. Students will investigate and distinguish between opportunities and constraints impacting global goods and services markets.

Program Requirements   **Units:** 12.0

IBUS 100	Introduction to International Business and Management	3.0
BUS 130	Principles of Supply Chain Management	3.0
BUS 129	Principles of Logistics	3.0
IBUS 120	Essentials of Import/Export Procedures	3.0

Total: 12.0

Italian - A.A. Degree Major or Certificate of Achievement (18 units or more)

World Languages Department

The degree will provide required course work for students majoring or minoring in Italian. In addition, completing the course work will meet the second language competency requirements at many colleges and universities. It will also provide instruction for students seeking language skills for personal development or travel.

To fulfill the A.A. Degree requirements or to receive the Certificate of Achievement, students must complete 20 units in Italian. Upon completion of this program, student will be able to interact with a degree of fluency and spontaneity at the intermediate level and will be able to demonstrate an understanding of the culture of the Italian speaking world.

Knowing Italian is a vital skill in countless career fields, given the relevance of Italian businesses to the global economy. Italian is relevant for students specializing in arts and humanities, including literature, theatre, history, art history and music, as well as the social and political sciences, education, business and international relations.

Learning Outcome(s):

1. Upon successful completion of the program, students will be able to understand the main points of standard speech and follow some complex lines of argument. Students will be able to understand the main points of radio, TV programs and film that address current affairs or topics of personal and professional interest. Students will be able to recognize the linguistic variations that exist within the Italian speaking world.
2. Upon successful completion of this program, students will be able to write clear detailed text on a range of subjects passing on information or giving reasons in support of or against a particular point of view. Students will be able to write letters, essays or reports highlighting the personal significance of events and experiences and compare and contrast their own culture with that of the Italian speaking world.
3. Upon successful completion of the program, students will be able to interact with a degree of fluency and spontaneity that makes interaction with native speakers possible. Students will be able to take an active part in discussions on familiar topics. Students will be able to present facts and opinions, compare and contrast cultural differences, explain a viewpoint on a topical issue and argue the advantages and disadvantages of various options.
4. Upon successful completion of the program, students will be able to comprehend written materials such as articles, reports and simple literary texts that address contemporary issues of the Italian speaking world. Students will be able to identify and evaluate the writers' particular attitudes and viewpoints.

Program Requirements		**Units:** 20.0
ITAL 101	Italian I	5.0
ITAL 102	Italian II	5.0
ITAL 201	Italian III	5.0
ITAL 202	Italian IV	5.0
		Total: 20.0

Japanese - A.A. Degree Major or Certificate of Achievement (18 units or more)

World Languages Department

This degree will provide required course work for students majoring or minoring in Japanese. In addition, completing the course work will meet the foreign language competency requirements at many colleges and universities. Students may receive humanities credit on general education patterns for both the CSU and UC systems. It will also provide instruction for students seeking foreign language skills for personal development.

Learning Outcome(s):

1. Upon successful completion of this program, students will be able to write clear detailed text on a range of subjects passing on information or giving reasons in support of or against a particular point of view. Students will be able to write letters, essays or reports highlighting the persona significance of events and experiences and compare and contrast their own culture with that of the Japanese speaking world.
2. Upon successful completion of the program, students will be able to comprehend written materials such as articles, reports and simple literary texts that address contemporary issues of the Japanese speaking world. Students will be able to identify and evaluate the writers' particular attitudes and viewpoints.
3. Upon successful completion of the program, students will be able to interact with a degree of fluency and spontaneity that makes interaction with native speakers possible. Students will be able to take an active part in discussions on familiar topics. Students will be able to present facts and opinions, compare and contrast cultural differences, explain a viewpoint on a topical issue and argue the advantages and disadvantages of various options.
4. Upon successful completion of the program, students will be able to understand the main points of standard speech and follow some complex lines of argument. Students will be able to understand the main points of radio, TV programs and film that address current affairs or topics of personal and professional interest. Students will be able to recognize the linguistic variations that exist within the Japanese speaking world.

Program Requirements		**Units:** 23.0
JAPN 101	Japanese I	5.0
JAPN 102	Japanese II	5.0
JAPN 201	Japanese III	5.0
JAPN 202	Japanese IV	5.0
JAPN 130	Introduction of Japanese Culture and Literature	3.0
		Total: 23.0

Journalism - AA-T Transfer Major (18 units or more)

Media Studies Department

The Associate in Arts in Journalism for Transfer teaches students the methods and techniques for gathering, processing and delivering news. It prepares students for careers in print and multimedia journalism. It includes instruction in news writing and editing, reporting, multimedia story production, and professional standards and ethics.

Careers in this field include book editor, copywriter, film critic, foreign correspondent, freelance writer, online editor, multimedia story producer, journalist, magazine editor, news anchor, newspaper editor, publicist, sportswriter and technical writer. This major may also lead to many other careers. For additional possibilities, visit the Career Center.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.

Learning Outcome(s):

1. Analyze and interpret media messages through an understanding of media practices, ownership and institutions.
2. Structure and craft messages in ways appropriate for specific audiences.
3. Perform the functions and skills of a reporter, photographer or editor on a print and online publication.

4. Use and evaluate technologies that enhance the mass communication process.
5. Apply ethical practices in daily work and recognize media roles and responsibilities in society.
6. Promote content effectively in two social media platforms.

Program Requirements		**Units:** 9.0
COMM 100	Introduction to Mass Communication	3.0
JOUR 101	Newswriting and Reporting	3.0
JOUR 105	College News Media Production 1	3.0

List A - Select one course		**Units:** 3.0
List A - Select one course		3.0
COMM 104	Introduction to Public Relations	3.0
OR		
JOUR 130	Multimedia Journalism	3.0
OR		
JOUR 205	College News Media Production 2	3.0

List B - Take both courses		**Units:** 6.0
ECON 101	Principles of Economics (Macro)	3.0
JOUR 200	Mastering Social Media	3.0
		Total: 18.0

Journalism - Certificate of Achievement (18 units or more)

Media Studies Department

This certificate is designed for students with or without a four-year degree who want to develop journalistic writing skills. This series of classes teaches people how to research beyond Google, report fact-based information, and understand media literacy. This program requires students to write for the campus newspaper website, social media and its print magazine. The curriculum requires students to create news-based multimedia projects such as informational graphics, photo slideshows and video packages. This certificate concludes with a student internship that could lead to a job in journalism, social media and other communications fields.

Learning Outcome(s):

1. Identify the four ethical guidelines from the Society of Professional Journalists and apply them to analyze scenarios related to ethical challenges of journalism. Assessment Tool: Exam
2. Create journalistic print, audio, video, and multimedia content full of fact-based information. Assessment Tool: Portfolio

3. Report and research fact-based information that they can effectively and quickly disseminate to the public. Assessment Tool: Portfolio

Program Requirements		**Units:** 18.0
JOUR 101	Newswriting and Reporting	3.0
JOUR 130	Multimedia Journalism	3.0
DBA 105	Multimedia Storytelling	2.0
JOUR 200	Mastering Social Media	3.0
BUS 152	Social Media for Business	3.0
Select one course		3.0
COMM 100	Introduction to Mass Communication	3.0
OR		
JOUR 105	College News Media Production 1	3.0
CE 150	Cooperative Education Internship	1.0
		Total: 18.0

Kinesiology - A.A. Degree Major (18 units or more)

Health and Kinesiology Department

Provides the student with background to begin upper division coursework and serves as preparation for entry level jobs in health clubs, non-credentialed physical education and coaching positions, and as recreation aides. Transfer students should consult the four-year college or university catalog for specific requirements or see a Palomar College counselor.

Learning Outcome(s):

1. Demonstrate knowledge and an understanding of physical activity and fitness and its role in personal, educational development and lifelong wellness.
2. Recognize and utilize effective communication skills in a diverse group setting.
3. Understand and apply proper strategies to prevent and reduce the risk of chronic disease.

Program Requirements		**Units:** 28.0

HE 104	Emergency Medical Responder	3.0
NUTR 165	Introduction to Human Nutrition	3.0
KINE 100	Introduction to Kinesiology	3.0
KINE 176	Athletic Training	3.0
PSYC C1000	Introduction to Psychology	3.0
BIOL 210	Anatomy	4.0
BIOL 211	Physiology	4.0
General Chemistry and Lab		5.0
CHEM 110	General Chemistry	3.0
AND		
CHEM 110L	General Chemistry Laboratory	2.0

Group I - Select a minimum of 1 course from 2 separate disciplines (minimum 7 units)   **Units:** 7.0-9.0

Statistics Elective (select one of the following two courses)		4.0-5.0
STAT C1000	Introduction to Statistics	4.0
OR		
STAT C1000E	Introduction to Statistics	4.0
OR		
MATH 135	Precalculus Mathematics	5.0

General Biology Elective (select one of the following two courses)		4.0
BIOL 100	Introductory Biology: General Biology	4.0
OR		
General Biology and Lab		4.0
BIOL 101	General Biology (Lecture)	3.0
AND		
BIOL 101L	Introductory Biology: General Biology (Laboratory)	1.0

| NUTR 185 | Science of Human Nutrition | 3.0 |

Group II - Fitness Courses: Select 1 course   **Units:** 1.0-2.0

HE 100L	Health Performance Lab	1.0
KINE 128A	Wellness Modalities- Cardio	1.0
KINE 128B	Wellness Modalities-Muscular	1.0
KINE 128C	Wellness Modalities- Functional	1.0
KINE 128D	Wellness Modalities- Periodization	1.0
KINE 150A	Beginning Weight Training	1.0
KINE 150B	Intermediate Weight Training- Strength Training for Total Fitness	1.0
KINE 150C	Advanced Weight Training- Power Lifting and Plyometrics Training	1.0

Group III - Sport Courses: select 1 course (An ACS course in these sports may be substituted for one)   **Units:** 1.0-2.5

KINE 117A	Beginning Golf: Techniques and Analysis	1.0
KINE 117B	Intermediate Golf: Techniques and Analysis	1.0
KINE 117C	Advanced Golf: Techniques and Analysis	1.0
KINE 135A	Beginning Swimming	1.0
KINE 135B	Intermediate Swimming	1.0
KINE 135C	Advanced Swimming	1.0
KINE 140A	Beginning Tennis: Techniques and Analysis	1.0
KINE 140B	Intermediate Tennis: Techniques and Analysis	1.0
KINE 140C	Advanced Tennis: Techniques and Analysis	1.0
KINE 166A	Beginning Basketball	1.0
KINE 166B	Intermediate Basketball	1.0
KINE 166C	Advanced Basketball	1.0
KINE 168A	Beginning Soccer	1.0
KINE 168B	Intermediate Soccer	1.0
KINE 168C	Advanced Soccer	1.0

Total: 37.0-41.5

Kinesiology - AA-T Transfer Major (18 units or more)

Health and Kinesiology Department

The Associate in Arts in Kinesiology for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in Kinesiology or similar major. A baccalaureate degree prepares students for entry into an extraordinary number of academic studies designed to prepare students to be leaders in the fields of physical activity, health, injury and disease prevention and treatment. Students who complete a Kinesiology baccalaureate degree will be prepared for a wide variety of career opportunities in such areas as education, fitness, health fitness medicine, health fitness rehabilitation, allied health and wellness, recreation and leisure, and sports related careers.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is also an acceptable grade for courses in the major.

Learning Outcome(s):

1. Demonstrate knowledge and an understanding of physical activity and fitness and its role in personal, educational development and lifelong wellness.
2. Recognize and utilize effective communication skills in a diverse group setting.
3. Understand and apply proper strategies to prevent and reduce the risk of chronic disease.

Program Requirements   **Units:** 11.0

KINE 100	Introduction to Kinesiology	3.0
BIOL 210	Anatomy	4.0
BIOL 211	Physiology	4.0

Select a minimum of one course from three of the four areas below: **Units:** 3.0
Area One: Individual Sports

KINE 117A	Beginning Golf: Techniques and Analysis	1.0
KINE 140A	Beginning Tennis: Techniques and Analysis	1.0
KINE 140B	Intermediate Tennis: Techniques and Analysis	1.0
KINE 140C	Advanced Tennis: Techniques and Analysis	1.0

Area Two: Aquatics

| KINE 135A | Beginning Swimming | 1.0 |

Area Three: Team Sports

KINE 155A	Beginning Volleyball: Techniques and Analysis	1.0
KINE 155B	Intermediate Volleyball: Techniques and Analysis	1.0
KINE 155C	Advanced Volleyball: Techniques and Analysis	1.0
KINE 166A	Beginning Basketball	1.0
KINE 168A	Beginning Soccer	1.0

Area Four: Fitness

| KINE 150A | Beginning Weight Training | 1.0 |
| KINE 150B | Intermediate Weight Training- Strength Training for Total Fitness | 1.0 |

List A (Select two courses, at least 6 units)   **Units:** 7.0-10.0

| *Statistics* | | 4.0 |

STAT C1000	Introduction to Statistics	4.0
OR		
STAT C1000E	Introduction to Statistics	4.0
OR		
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0

General Biology		4.0
BIOL 100	Introductory Biology: General Biology	4.0
OR		
General Biology Lecture and Lab		4.0
BIOL 101	General Biology (Lecture)	3.0
AND		
BIOL 101L	Introductory Biology: General Biology (Laboratory)	1.0

General Chemistry and Lab		5.0
CHEM 110	General Chemistry	3.0
AND		
CHEM 110L	General Chemistry Laboratory	2.0

HE 104	Emergency Medical Responder	3.0
Physics		4.0-5.0
PHYS 120	General Physics	4.0
OR		
PHYS 230	Principles of Physics	5.0

Total: 21.0-24.0

Lathe Turning Technology - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

This program prepares students to make a living as a wood turner. All aspects of turning will be explored such as making tools and household objects, period and studio furniture applications, architectural applications, vessels and hollow forms. Basic and advanced tool use, application and sharpening will be included. Students will be able design and fabricate turned period furniture parts, contemporary furniture parts, and custom furniture parts. Students will be able to design and fabricate functional items such as tool handles, platters vessels, bowls, as well as similar studio art pieces. Students will also be able to design a line of turned pieces and be able to market pieces in shows, on line and in galleries.

Learning Outcome(s):

1. Student will be able to produce turned details for furniture and architectural applications.
2. Student will be able to write a business plan for a lathe turning related business.
3. Students will be able to effectively sharpen all appropriate lathe tools.
4. Students will be able to prepare a gallery show/exhibition.
5. Students will be prepared to set up a shop to run their own bussiness.

Program Requirements   **Units:** 16.0

CFT 100	Fundamentals of Woodworking	4.0
CFT 108	Business Woodworking	2.0
Statistics Elective (select one of the following)		2.0
CFT 118	Furniture Design Development	2.0
OR		
CFT 153	Studio Furniture Design I	2.0
CFT 176	The Lathe - An Introduction to Woodturning	2.0
CFT 177	Lathe II - Intermediate Turning	2.0
CFT 178	Lathe III - Advanced Turning	2.0
CFT 195	Finishing Technology/Touch-Up and Repair	2.0

Electives (Select 2 units)   **Units:** 2.0

CFT 105	Machine Woodworking/Furniture	4.0
CFT 143	Decorative Box Making	2.0
CFT 155	Classic American Chair Designs	2.0
CFT 185	Machine Tool Set-Up and Maintenance	2.0

Total: 18.0

Law, Public Policy and Society - AA-T Transfer Major (18 units or more)

Business Administration Department

This interdisciplinary transfer degree provides the preparatory skills and knowledge for a variety of majors related to careers in law, public policy, and public administration. It also provides students with the knowledge they need to be effective and informed global citizens through the study of U.S. government and ethical decision-making, qualitative and quantitative analysis of legal and policy solutions to social problems, and developing the advocacy and communication skills required to form strong, supported and persuasive arguments.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
2. The California General Education Transfer Curriculum (Cal-GETC)
3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major.

Learning Outcome(s):

1. American Legal System The student will demonstrate knowledge of the American Legal System.
2. Essay/Paper Student prepares original research and develops a legal memo.

Program Requirements		**Units:** 27.0-28.0
LS 121	Introduction to Law	3.0
LS 145	Legal Ethics	3.0
Select One		3.0
COMM C1000	Introduction to Public Speaking	3.0
OR		
SPCH 105	Beginning Argumentation and Critical Thinking	3.0
Select One		4.0
ENGL C1000	Academic Reading and Writing	4.0
OR		
ENGL C1000E	Academic Reading and Writing	4.0
OR		
ESL 110	College Composition for Non-Native Speakers	4.0
Select One		3.0-4.0
ENGL C1001	Critical Thinking and Writing	4.0
OR		
PHIL 116	Introduction to Logic	3.0
Select One		4.0
STAT C1000	Introduction to Statistics	4.0
OR		
STAT C1000E	Introduction to Statistics	4.0
OR		
BUS 204	Quantitative Business Analysis	4.0
OR		
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0
OR		
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0
Select One		3.0
HIST 101	History of the United States Through Reconstruction	3.0
OR		
HIST 102	History of the United States Since Reconstruction	3.0
POLS C1000	American Government and Politics	4.0

List A: Select two courses (6 units) from two of the areas listed below.		**Units:** 6.0
Administration of Justice		3.0
AJ 100	Introduction To Criminal Justice	3.0
Business		3.0
BUS 117	Legal Environment of Business	3.0
Economics		3.0
ECON 101	Principles of Economics (Macro)	3.0
OR		
ECON 102	Principles of Economics (Micro)	3.0
Public Policy		3.0
LS 240	Civil Liberties and Procedures	3.0
College Success		3.0
COUN 110	College Success	3.0
Internship/Field Work		3.0
CE 150	Cooperative Education Internship	3.0

Total: 33.0-34.0

Library and Information Technology - A.S. Degree Major/Cert. Achievement (18 units or more)

Library and Information Technology Department

Provides training for students desiring employment as library technicians, as identified in occupational classification resources. This includes library support staff positions such as library technical assistants, library media technicians, library paraprofessionals and

more. Employment growth is steady and training for those reentering the labor market is a continuing need.

Learning Outcome(s):

1. Students will be able to accurately use acquisitions techniques as well as current cataloging and classification systems to order and process library materials.
2. Students will be able to apply the basic principles of reference, information literacy, information services, and collection development in order to select appropriate resources and assist patrons.
3. Students will be able to function effectively in the areas of circulation, interlibrary loan and collection maintenance.
4. Students will be able to identify, evaluate and effectively use library technologies, including emerging and assistive technologies, to inform, educate and serve library patrons.
5. Students will be able to recommend appropriate strategies for teaching others to evaluate information sources.

6. Students will understand and be able to describe the mission and roles of a library in its community, and the mission of libraries in general.

Program Requirements   **Units:** 24.0

LT 100	Introduction to Libraries and Information Services	3.0
LT 105	Research Skills & Informed Learning	3.0
LT 110	Library Operational Skills/Technical Services	3.0
LT 115	Library Operational Skills/Public Services	3.0
LT 120	Information Sources and Services/ Reference	3.0
LT 130	Library Media and Technology	3.0
LT 140	Library Services for Children and Young Adults	3.0
CSIT 105	Computer Concepts and Applications	3.0

Total: 24.0

Machining Technology - A.S. Degree Major/Cert. Achievement (18 units or more)

Design and Manufacturing Technologies Department

The Machining Technology Program will provide a foundation of design and manufacturing skills using Computer Aided Manufacturing software, programming CNC machinery using MasterCAM, and the set up and operations of CNC Lathes, CNC Mills, and 5-Axis CNC Mills. Quality control is also incorporated using advanced precision measuring techniques to insure product precision and accuracy. Upon completion of this program, students will be qualified for an entry level position in Machining and Manufacturing.

Learning Outcome(s):

1. Perform set-up and operations on CNC Equipment such as CNC Mill, CNC Lathe, 5-Axis CNC Mill.
2. Draw, Import, and manipulate CAD files and wire-frame using MasterCAM

3. Create programs using MasterCAM to run in CNC Equipment such as CNC Mill, CNC Lathe, 5-Axis CNC Mill.

Machining Technology   **Units:** 21.0

MACH 117	Blueprint Reading and Geometric Dimensioning and Tolerancing (GD+T)	3.0
IT 108 / WELD 108	Technical Mathematics	3.0
MACH 120	Precision Measure and Metrology	3.0
MACH 125	Tooling Concepts	3.0
MACH 228	Metallurgy and Industrial Materials	3.0
MACH 190	CNC Machining / MasterCAM I	3.0
MACH 191	CNC Machining MasterCam II	3.0

Total: 21.0

Management Information Systems - A.S. Degree Major/Cert. Achievement (18 units or more)

Computer Science & Information Systems Department

Management Information Systems (MIS) is a series of courses that bind both business and technology to produce quality information for an organization. MIS professionals focus on the business side of Information Systems (IS).   An MIS professional utilizes computer information systems to facilitate the decision-making of managers.

Key areas of focus in this degree are: Business Communications; Accounting; Economics; Business Law; Statistics; Mathematics; Computer Information Systems; Computer Programming; Systems Analysis and Design; Database Management Systems; Data Communications; and Security.

Learning Outcome(s):

1. Students will demonstrate effective communication and teamwork using software tools such as Excel or Data Visualization software to analyze an organization's data and produce quality information.
2. Utilize technology effectively to solve business problems.
3. Students will be able to identify the importantance of Business Law, Accounting, and Economic principles as it applies to a business organization's best practices in implementing technology to solve business problems.

Program Requirements   **Units:** 34.0

CSIT 105	Computer Concepts and Applications	3.0
CSIT 125	Computer Information Systems	3.0
BUS 117	Legal Environment of Business	3.0
Elective (select one of the following three courses)		4.0
BUS 204	Quantitative Business Analysis	4.0
OR		
STAT C1000	Introduction to Statistics	4.0
OR		
STAT C1000E	Introduction to Statistics	4.0
OR		
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0
BUS 205	Business Communication	3.0
Calculus for Business and the Social Sciences		4.0

MATH 130	Calculus for Business and the Social Sciences	4.0
OR		
MATH 130E	Calculus for Business and the Social Sciences Enhanced	4.0
ACCT 201	Financial Accounting	4.0
ACCT 202	Managerial Accounting	4.0
ECON 101	Principles of Economics (Macro)	3.0
ECON 102	Principles of Economics (Micro)	3.0

Group 1 Electives (Select 1 course)		**Units:** 3.0
CSIT 150	Introduction to SQL	3.0
CSIT 175	Python Programming	3.0
CSIT 180	C# Programming I	3.0
CSIT 226	Data Visualization	3.0
CSIT 230	Data Modeling	3.0
CSWB 110	Web Site Development with HTML5/CSS3	3.0

Total: 37.0

Mathematics - A.S. Degree Major (18 units or more)

Mathematics Department

Provides the background to satisfy upper division course work in mathematics and for entry-level positions that require a knowledge of mathematics such as Technical Assistant and Mathematical Technician. The student is advised to check with the school to which he or she wishes to transfer for additional courses which may be required.

Learning Outcome(s):

1. Find the derivative of functions using the rules of derivatives.
2. Evaluate integrals using various techniques of integration.
3. Use calculus to solve a variety of science, math, and engineering problems.
4. Demonstrate other uses of mathematics in some STEM (Science, Technology, Engineering, Mathematics) disciplines in an introductory format.

Program Requirements   **Units:** 20.0-21.0

Calculus with Analytic Geometry, First Course		5.0
MATH 140	Calculus with Analytic Geometry, First Course	5.0
OR		
MATH 140E	Calculus with Analytic Geometry, First Course Enhanced	5.0
Calculus with Analytic Geometry, Second Course		4.0
MATH 141	Calculus with Analytic Geometry, Second Course	4.0

OR		
MATH 141E	Calculus with Analytic Geometry, Second Course Enhanced	4.0
MATH 205	Calculus with Analytic Geometry, Third Course	4.0
CSCI 112	Programming Fundamentals I	4.0
Elective (select one of the following three courses)		3.0-4.0
STAT C1000	Introduction to Statistics	4.0
OR		
STAT C1000E	Introduction to Statistics	4.0
OR		
MATH 200	Introduction to Linear Algebra	3.0
OR		
MATH 206	Calculus with Differential Equations	4.0

Recommended Electives

CHEM 110	General Chemistry	3.0
CHEM 115	General Chemistry	3.0
MATH 245	Discrete Mathematics	3.0
PHYS 230	Principles of Physics	5.0
PHYS 231	Principles of Physics	5.0
PHYS 232	Principles of Physics	4.0

Total: 20.0-21.0

Mathematics - AS-T Transfer Major (18 units or more)

Mathematics Department

The Associate in Science in Mathematics for Transfer enables students to analyze problems from graphical, numeric, and symbolic perspectives, and interpret and apply the results in physics, engineering, biology, computer science, business, statistics, economics, and health sciences.

The Associate in Science in Mathematics for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in a similar major ..

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major.

Learning Outcome(s):

1. Find the derivative of functions using the rules of derivatives.
2. Evaluate integrals using various techniques of integration.
3. Use calculus to solve a variety of science, math, and engineering problems.
4. Prove a fundamental result in linear algebra and/or apply appropriate analytical techniques to solve differential equations.

Program Requirements   **Units:** 13.0

Calculus with Analytic Geometry, First Course		5.0
MATH 140	Calculus with Analytic Geometry, First Course	5.0
OR		
MATH 140E	Calculus with Analytic Geometry, First Course Enhanced	5.0
Calculus with Analytic Geometry, Second Course		4.0
MATH 141	Calculus with Analytic Geometry, Second Course	4.0
OR		
MATH 141E	Calculus with Analytic Geometry, Second Course Enhanced	4.0
MATH 205	Calculus with Analytic Geometry, Third Course[*]	4.0

List A (Select 1 course)		Units: 3.0-4.0
MATH 200	Introduction to Linear Algebra	3.0
MATH 206	Calculus with Differential Equations	4.0

List B (Select 1 course not previously taken)		Units: 3.0-5.0
CSCI 112	Programming Fundamentals I	4.0
STAT C1000	Introduction to Statistics	4.0
STAT C1000E	Introduction to Statistics	4.0
MATH 200	Introduction to Linear Algebra	3.0
MATH 206	Calculus with Differential Equations	4.0
MATH 245	Discrete Mathematics	3.0
PHYS 230	Principles of Physics[*]	5.0

Total: 19.0-22.0

Mechanical Engineering Drafting and Design Technology - A.S. Degree Major/Cert. Achievement (18 units or more)

Design and Manufacturing Technologies Department

The Mechanical Engineering Drafting and Design Technology Program prepares students with computer and technical drafting skills necessary to form a foundation in Computer-Aided Drafting and Design (CADD) as it applies to the mechanical engineering field. The 2D fundamentals of this program include drawing, modifying, and annotating (creating text, dimensioning, tolerancing, leaders, tables and title blocks) of basic objects, user interface customization, file management, and plotting/printing. Students will learn plane geometry, orthographic projection, and auxiliary views. Students will study blocks, libraries, the design center and customize tool palettes. Design intent and layout will be emphasized throughout the drafting process. 3D modeling will include wireframes, surfaces, meshes and solids. This program will encompass core features of parts, building assemblies and creating mechanized assemblies. Kinematic (motion) feasibility studies of assemblies will be covered. Technical mathematics and a basic understanding of industrial materials and their properties for manufacturing will be taught. Completion of this program prepares students for entry level drafting employment in the mechanical engineering drafting and design field.

Learning Outcome(s):

1. Use mechanical engineering industry standard drafting and design techniques and software, such as AutoCAD, SolidWorks, and Creo.
2. Analyze industrial materials and their properties for manufacturing mechanical parts.
3. Apply technical mathematics to drafting and design.
4. Apply industry standard geometric dimension and tolerancing practices to mechanical drawings for documentation and manufacturing.

Program Requirements		Units: 27.0
DT 101	AutoCAD I	3.0
DT 102	AutoCAD II	3.0
DT 110	Technical Drafting I	3.0
DT 111	Conceptual Design through Production	3.0
Elective (select one of the following two courses) DT 103 and DT 104 must be taken consecutively. DT 114 and DT 115 must be taken consecutively.		3.0
DT 103	SolidWorks I	3.0
OR		
DT 114	Creo Parametric I	3.0
Elective (select one of the following two courses)		3.0
DT 104	SolidWorks II	3.0
OR		
DT 115	Creo Parametric II	3.0
DT 117	Blueprint Reading and Geometric Dimensioning and Tolerancing (GD+T)	3.0
MACH 228	Metallurgy and Industrial Materials	3.0
IT 108 / WELD 108	Technical Mathematics	3.0

Total: 27.0

Medical Office Specialist - A.S. Degree Major/Cert. Achievement (18 units or more)

Business Administration Department

Provides specific front-office skills for an entry-level position in a medical-related facility.

Learning Outcome(s):

1. To master skills necessary to seek employment as a front office medical worker.

Program Requirements		**Units:** 18.0-20.0
BUS 80	Medical Terminology and Anatomy	4.0
BUS 82	Medical Insurance Billing and Coding	3.0
BUS 84	Healthcare Writing Techniques	2.0
BUS 86	Electronic Health Record Applications	2.0

BUS 88	Medical Office Administration	3.0
BUS 166	Intermediate Keyboarding	2.0
CE 150	Cooperative Education Internship	2.0-4.0
Demonstrate the ability to type 45 net words per minute for five minutes with 5 errors or less		

Total: 18.0-20.0

Medium/ Heavy Duty Zero Emissions Vehicle Technologies - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

The Medium/ Heavy Duty Vehicle Zero Emissions program provides students with the opportunity and exposure to acquire entry-level job skills through lecture and hands-on training for the medium/ heavy duty zero emissions technology repair and service industry. This program will cover zero emissions medium/heavy duty trucks, school buses, public transportation, off-road vehicles, and port vehicles.

Learning Outcome(s):

1. Diagnose and repair high voltage battery system concerns, including battery degradation;
2. Diagnose and repair power electronics;
3. Test internal combustion engine for proper operations (Hybrid systems);
4. Perform a test drive for fault verification and proper operations;
5. Diagnose and repair supporting systems including hybrid systems;
6. Diagnose hydrogen fuel cell functions and repairs.

Program Requirements		**Units:** 32.0
DMT 100	Introduction to Diesel Mechanics	4.0
DMT 110	Heavy-Duty Electricity	4.0
DMT 120	Air Brake Systems	4.0
DMT 125	Truck Transmission And Drive Lines	4.0
ZEVTEC 225	Troubleshooting & Repair of HIGH-VOLTAGE SYSTEMS	4.0
ZEVTEC 215	Med/H.D. Mobile HVAC	4.0
ZEVTEC 210	Steering, Suspensions & Frame	4.0
ZEVTEC 205	Hydrogen Fuel Cells and Systems	4.0

To complete the A.S. Degree, choose a General Education (GE) Pattern. Please make an appointment with a counselor to review details specific to your academic goals.

Palomar College District General Education and District Requirements[*]

OR

California State University General Education Breadth (CSU GE)

OR

Intersegmental General Education Transfer Curriculum Pattern (IGETC)

[*]*Competence in Reading and Written Expression; Competence in Mathematics; Competence in American History and Institutions/ California Government; Competence in Health and Fitness; Ethnic Studies

Total: 32.0

Military Leadership - A.S. Degree Major/Cert. Achievement (18 units or more)

Occupational and Noncredit Programs Department

Designed for all Marine Corps Sergeants regardless of military occupational specialty (MOS). Supports unit commanders and builds the necessary leadership, communication and warfighting skills to allow students to perform the duties of small unit leaders. Provides leadership skills including formulating policies, managing daily operations, and planning the use of materials and human resources in public or private sector organizations in a wide range of sectors.

Learning Outcome(s):

1. Assess one's leadership, drawing on the philosophies and doctrinal publications that establish the basis for decision-making, warfighting, and organizational values and ethics within the Marine Corps.
2. Examine how personal actions influence processes and stimulate change in the behavior and attitudes of subordinates.
3. Identify and demonstrate communication skills necessary to guide subordinates in personal and professional development.

Program Requirements		**Units:** 12.0
MIL 100	Military Leadership Communications	3.0
MIL 101	Military Warfighting Philosophy	3.0
MIL 102	Sustaining the Transformation: Marine Corps Customs and Traditions	3.0
MIL 103	Military Leadership Philosophy	3.0

Military Leadership Work Experience (6 units required in any combination of MIL 197, MIL 198, or MIL 199)		**Units:** 6.0
		0.5-6.0
MIL 197	Military Leadership: The Professional Warfighter	0.5
OR		
MIL 198	Military Leadership: The Sound Decision Maker	0.5
OR		
MIL 199	Military Leadership: The Ethical Leader	6.0

Total: 18.0

Multimedia Design - A.S. Degree Major/Cert. Achievement (18 units or more)

Graphic Communications Department

Prepares students with specific skills necessary for employment in the field of multimedia design and production. Students may choose an emphasis in multimedia design, digital video, and web design with selection of applicable electives.

Learning Outcome(s):

1. Integrate digital media skills (digital animation, compositing, sound, creative digital skills, typography) into a final multimedia production.
2. Retouch and colorize photographs, understand resolution, use multiple layers, and color mode usage.
3. Be able to navigate the After Effects software and create a motion graphics project using still images and setting them in motion with keyframes.
4. Produce a web page that integrates graphics and typography, and if appropriate animaton, motion graphics, and sound.

Program Requirements **Units:** 23.0

GCMW 205	Digital Video for Multimedia	3.0
GCMW 165	Digital Video Design	3.0
GCMW 115	Web Page Layout/WordPress I	2.0
GCMW 102	Web Page Layout I	3.0
GCMW 201	Multimedia II	3.0
GCIP 140	Digital Imaging/Photoshop I	3.0
GCMW 204	Motion Graphics for Multimedia	3.0
GCIP 168	Digital Imaging with Drones	3.0

Electives (Select two courses) **Units:** 6.0

ARTI 246	Digital 3D Design and Modeling	3.0
CINE 170 / DBA 170	Introduction to Video Editing	3.0
DBA 270 / CINE 270	Advanced Video Editing	3.0
GCIP 152	Digital Publishing/Illustrator I	3.0
MUS 180	Computer Music I	3.0
GCIP 268	Digital Imaging with Drones II	3.0
GCIP 141	Digital Imaging/Photoshop II	3.0
GCMW 106	Multimedia for Social Networking	3.0
ARTD 220	Motion Design	3.0
ARTI 247	Digital 3D Design and Animation	3.0

Total: 29.0

Multimedia Journalism - Certificate of Achievement (18 units or more)

Media Studies Department

The Journalism program provides students with an education that prepares them to become critical producers and consumers of mass media content. Our goal is to make them better able to understand our media institutions and add their voice to the process of shaping their cultural environment.

Learning Outcome(s):

1. Analyze and interpret media messages through an understanding of media practices, ownership and institutions.
2. Structure and craft messages in ways appropriate for specific audiences.
3. Perform the functions and skills of a reporter, photographer or editor on a print and online publication.
4. Use and evaluate technologies that enhance the mass communication process.

Program Requirements **Units:** 30.0

JOUR 130	Multimedia Journalism	3.0
JOUR 200	Mastering Social Media	3.0
JOUR 101	Newswriting and Reporting	3.0
JOUR 105	College News Media Production 1	3.0
JOUR 205	College News Media Production 2	3.0
JOUR 210	College News Media Production 3	3.0
Elective (select one of the following two courses)		3.0
JOUR 215	College News Media Production 4	3.0
OR		
PHOT 140	Photojournalism	3.0
COMM 100	Introduction to Mass Communication	3.0
COMM 104	Introduction to Public Relations	3.0
COMM 105	Race, Gender and Media Effects	3.0

Recommended Electives

JOUR 295	Directed Study in Journalism	1.0

Total: 30.0

Multimedia Production I - Certificate of Achievement (8-15 units)

Graphic Communications Department

This certificate allows the student to obtain skills for entry level employment into companies utilizing Digital Multimedia as a medium.

Learning Outcome(s):

1. Integrate digital media skills (digital animation, compositing, sound, creative digital skills, typography) into a final multimedia production.

2. Be able to navigate the After Effects software and create a motion graphics project using still images and setting them in motion with keyframes.
3. Produce a web page that integrates graphics and typography, and if appropriate animation, motion graphics, and sound.

Program Course Requirements   **Units:** 9.0

GCMW 165	Digital Video Design	3.0
GCMW 204	Motion Graphics for Multimedia	3.0
GCMW 205	Digital Video for Multimedia	3.0
	Total:	9.0

Music - A.A. Degree Major (18 units or more)

Performing Arts Department

The Music Associate in Arts Degree prepares students for transfer to a California State University, University of California, private university or conservatory that offers a Bachelor of Music Degree or Bachelor of Arts Degree in Music.

Learning Outcome(s):

1. Identify and evaluate the elements of live musical performance that contribute to student's aesthetic and cultural growth.
2. Perform and/or participate successfully in small and large ensembles, using time management and interpersonal skills to assist in the production of a collaborative musical work.
3. Utilize a variety of technological resources and tools to enhance their composing, performance and music production skills
4. Recognize, write and utilize the fundamental aspects and principles of music, including music theory, notation, form and performance practice.
5. Acquire proficient musicianship skills including keyboard skills and the ability to perform and transcribe rhythms and diatonic and chromatic melodies in various meters.
6. Present successful solo performances using appropriate repertoire for their chosen instrument/voice with technical proficiency, musicality and stylistic awareness.

Program Requirements   **Units:** 22.0

MUS 100	Music Appreciation	3.0
MUS 105	Music Theory I	3.0
MUS 106	Music Theory II	3.0
MUS 110	Music Skills I	1.0
MUS 111	Music Skills II	1.0
MUS 180	Computer Music I	3.0
MUS 210	Advanced Harmony	3.0
MUS 211	Counterpoint	3.0
MUS 215	Music Skills III	1.0
MUS 216	Music Skills IV	1.0

Piano Proficiency (Select a minimum of .5 - 2.5 units)   **Units:** 0.5-2.5

MUS 115	Basic Keyboard I	0.5
MUS 116	Accelerated Basic Keyboard	1.0
MUS 117	Basic Keyboard II	0.5
MUS 119	Piano Skills I	0.5
MUS 224	Introduction to Jazz Piano	0.5
MUS 225	Piano Skills II	0.5

Choose One Emphasis   **Units:** 6.0

Choose One Emphasis	6.0
Emphasis in Composition and Theory (Students must take MUS 184 for three semesters, and MUS 220 and 222 for two semesters, plus a minimum of 2 units from the Performance Course List.)	6.0

MUS 181	Computer Music II	3.0
MUS 184	Electronic Ensemble	1.0
MUS 187	Computer Music Composition	1.0
MUS 220	Applied Music	1.0
MUS 222	Performance Studies	0.5
OR		
Emphasis in Performance (Students must complete four semesters of MUS 220 and 222, plus a minimum of 4 units from the Performance Course List.)		6.0
MUS 220	Applied Music	1.0
MUS 222	Performance Studies	0.5
OR		
Emphasis in General Music (Select 6 units, plus a minimum of 4 units from the Performance Course List.)		6.0
MUS 101	Survey of 20th Century Music	3.0
MUS 102	Introduction to Jazz	3.0
MUS 130	Fundamental Vocal Skills	0.5
MUS 131	Vocal Literature and Performance	0.5
MUS 169	History of Rock Music	3.0
MUS 171	World Music	3.0
MUS 175	Beginning Guitar	0.5
MUS 176	Intermediate Guitar	0.5
MUS 181	Computer Music II	3.0
MUS 184	Electronic Ensemble	1.0
MUS 187	Computer Music Composition	1.0

Performance Course List (See Emphasis for minimum unit requirements)   **Units:** 2.0-4.0

MUS 130	Fundamental Vocal Skills	0.5
MUS 131	Vocal Literature and Performance	0.5
MUS 137 / DNCE 137	Cuban and Brazilian Drumming I	0.5
MUS 138 / DNCE 138	Cuban and Brazilian Drumming II	0.5
MUS 148	Palomar Chorale	1.0
MUS 150	Musical Theatre - Vocal	0.5
MUS 151	Concert Band	1.0
MUS 152	Jazz Ensemble	1.0
MUS 155	Chamber Ensemble - Brass	1.0
MUS 158	Chamber Singers	0.5
MUS 159	Musical Theatre Orchestra	0.5
MUS 161	Summer Concert Band	0.5
MUS 172	Repertory Jazz Ensemble	1.0
MUS 173 / TA 173 / DNCE 173	Musical Theatre Scenes I	1.0
MUS 175	Beginning Guitar	0.5
MUS 176	Intermediate Guitar	0.5
MUS 184	Electronic Ensemble	1.0

| MUS 198 | Palomar Symphony Orchestra | 1.0 |
| MUS 251 | Master Class in Keyboard Literature, Analysis and Performance | 0.5 |

Total: 30.5-34.5

Music - AA-T Transfer Major (18 units or more)

Performing Arts Department

The Associate in Art in Music for Transfer prepares students to transfer to California State University campuses that offer bachelor's degrees in Music. The Music AA-T degree prepares students to demonstrate competence and discipline in the study of music in all of its facets as well as read and audiate music. Completers will demonstrate proficiency in ensemble and solo performance skills. While a baccalaureate degree is recommended for a possible career in music production, performance, and music education, completion of this curriculum will demonstrate commitment to the study of Music in practice and in theory and will provide required preparation for upper-division work leading to a Bachelor of Arts Degree in Music at a University.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major.

Learning Outcome(s):

1. Student will identify and evaluate the elements of live musical performance that contribute to student's aesthetic and cultural growth.
2. Student will analyze tonal structure by successfully transcribing four-part harmonic dictation at the university transfer level.

Required Core **Units:** 16.0

First Term		4.0
MUS 105	Music Theory I	3.0
AND		
MUS 110	Music Skills I	1.0
Second Term		4.0
MUS 106	Music Theory II	3.0
AND		
MUS 111	Music Skills II	1.0
Third Term		4.0
MUS 210	Advanced Harmony	3.0
AND		
MUS 215	Music Skills III	1.0
Fourth Term		4.0
MUS 211	Counterpoint	3.0
AND		
MUS 216	Music Skills IV	1.0

Applied Music (Must take two times for a total of two units) **Units:** 2.0

| MUS 220 | Applied Music | 2.0 |

Ensembles (Select 4 units) **Units:** 4.0

MUS 148	Palomar Chorale	1.0
MUS 151	Concert Band	1.0
MUS 152	Jazz Ensemble	1.0
MUS 155	Chamber Ensemble - Brass	1.0
MUS 158	Chamber Singers	0.5
MUS 172	Repertory Jazz Ensemble	1.0
MUS 184	Electronic Ensemble	1.0
MUS 198	Palomar Symphony Orchestra	1.0

Total: 22.0

Musical Theatre Preparation - Certificate of Achievement (12-17 units)

Performing Arts Department

The Certificate in Musical Theatre Preparation prepares the students for auditions and performances in the Musical Theatre Genre. This certificate provides the students with the basic and continuing skills necessary to for involvement in community theatre, theme park, cruise ship, and a range of musical theatre opportunities.

Learning Outcome(s):

1. Synthesize characterizations in music, theatre, and dance in a musical theatre scene.
2. Perform a musical theatre number with proficiency, while integrating music, theatre, and dance.

Program Requirements **Units:** 16.0

MUS 173 / TA 173 / DNCE 173	Musical Theatre Scenes I	1.0
DNCE 174 / MUS 174 / TA 174	Musical Theatre Scenes II	1.0
DNCE 149	Afro-Cuban/Brazilian Dance I	1.0
DNCE 150	Afro-Cuban/Brazilian Dance II	1.0
DNCE 115	Ballet I	1.0
DNCE 116	Ballet II	1.0
DNCE 131	Tap II	1.0
DNCE 151	Latin Social Dance I	1.0
DNCE 120	Jazz Technique I	1.0
TA 115	Acting I	3.0

MUS 130	Fundamental Vocal Skills	0.5
TA 191A	Rehearsal and Performance I	2.0
MUS 131	Vocal Literature and Performance	0.5

DNCE 130	Tap I	1.0
		Total: 16.0

New Media Compositing, Authoring, and Distribution - A.S. Degree Major/Cert. Achievement (18 units or more)

Graphic Communications Department

This program is directed at alternative methods of digital video compilation and distribution. Students will learn techniques and software to compile and composite digital video for release on mobile devices, screen media and Internet formats.

Learning Outcome(s):

1. Successfully key green screen video over graphics, stills, animation to create a realistic composite.
2. Design and develop a complex website that incorporates typography, graphics images, photographic images, and multimedia (digital images, sound, motion graphics, animation, etc.); sites must validate.

Program Requirements		**Units:** 18.0
GCIP 240	Photoshop for Digital Imaging III	3.0
GCMW 101	Multimedia I	3.0
GCMW 165	Digital Video Design	3.0
GCMW 201	Multimedia II	3.0

GCMW 204	Motion Graphics for Multimedia	3.0
GCMW 205	Digital Video for Multimedia	3.0

Electives (Select 3 units)		**Units:** 3.0
ARTD 220	Motion Design	3.0
ARTI 246	Digital 3D Design and Modeling	3.0
ARTI 247	Digital 3D Design and Animation	3.0
DBA 230	Digital Audio Avid Pro Tools	3.0
DBA 270 / CINE 270	Advanced Video Editing	3.0
GCIP 141	Digital Imaging/Photoshop II	3.0
GCIP 168	Digital Imaging with Drones	3.0
GCMW 115	Web Page Layout/WordPress I	2.0
GCMW 202	Web Page Layout II	3.0
		Total: 21.0

Contact the Nursing Education Department: 760-744-1150, ext. 2279 | Office: HS-200

Associate Degree, Certificate of Achievement and Certificate of Proficiency requirements are listed in Section 6 (green pages). For transfer information, consult a Palomar College Counselor. The Associate Degree Nursing program is approved by the California Board of Registered Nursing and is accredited by the Accreditation Commission for Education in Nursing (ACEN), Peachtree Rd. NE, Suite 850, Atlanta, GA 30326, 1-404-975-5000.

General Information

The Associate Degree Nursing program prepares graduates to provide direct nursing care to patients in hospitals and other health agencies at a staff nurse level. The curriculum consists of coursework in nursing, general education, and clinical nursing practice in local hospitals and other health agencies. The Nursing faculty of the College is directly responsible for all phases of the program.

Palomar College has two Associate Degree options available in Nursing: The Associate in Science (AS) in Nursing Degree and the Associate in Arts (AA) in Nursing Degree. The difference in the coursework between the two options is in the GE requirements. Refer to the Requirements section of each degree for specific differences. Both degree options meet the requirements of Title V, the Board of Registered Nursing (BRN), and the Accreditation Commission for Education in Nursing (ACEN).

Students who have a current LVN license can select an optional pathway to enter the program in the second semester for the Associate in Arts or the Associate in Science Nursing degrees.

Admission to the nursing program is by special application. To be eligible for consideration, applicants must (1) be eligible for admission to Palomar College; (2) attend a Nursing Orientation

meeting; (3) submit proof of high school graduation or equivalency or higher; (4) have a GPA of 2.5 in prerequisite sciences; (5) pass the Test of Essential Academic Skills (TEAS), version V, with a composite score of at least 62%; and (6) submit a completed application along with the required documentation.

Licensure

Upon successful completion of either the Associate in Arts (AA) in Nursing Degree or the Associate in Science (AS) in Nursing Degree, students will be eligible to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX RN). If performance on the examination is successful, they will be licensed as a registered nurse. Students who are LVNs and who are electing the Non-Degree 30 Unit Option, as well as students who do not complete the requirements for the Associate in Arts (AA) or the Associate in Science (AS) in Nursing but who successfully complete the required nursing and support courses, are eligible to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX RN) as a NON-DEGREE Candidate. If successful, they will be licensed as a RN by the California Board of Registered Nursing. Endorsement of a non-degree graduate RN in other states is not guaranteed because these regulations are unique to California. ONCE THE NURSING PROGRAM IS STARTED UNDER A 30-UNIT OPTION, STATUS CANNOT BE CHANGED FROM NON-DEGREE TO DEGREE REGARDLESS OF SUBSEQUENT DEGREES EARNED.

Credit by Transfer

Students who have been enrolled in an accredited Registered Nursing program within the last two years may receive full credit for courses transferred which are, as evaluated by the Palomar College Nursing Education Department faculty, comparable to courses offered by the College. If courses transferred are found not to be comparable, students may challenge Palomar courses for credit.

Credit by Examination

Academic credit by examination may be obtained by those whose prior education and/or experience provides the knowledge and skills required to meet the objectives of one or more courses. Students who believe they may be eligible for credit by examination should contact the Nursing Education Department for an appointment for special advising prior to submitting their application for admission to the program. For College policy regarding credit by examination, consult "Credit by Examination" in the Academic Regulations and Standards section of this catalog. Upon completion of the eligibility requirements, separate theory and clinical performance examinations will be administered for courses with a laboratory component. A written patient care plan is required in all appropriate theory and clinical courses. Completion of the written work with a grade of 'C' or better is required prior to taking the clinical examination. Courses without a lab component will have a written examination only. A grade of 'C' or better must be achieved. The Nursing Education Department's Credit by Examination Policy may be obtained from the Nursing Education Department Office. A maximum of 20 units may be obtained through credit by examination.

Students with a Previous Bachelor's Degree

As per the Education Code, SB 1393, students with baccalaureate or higher degrees from a regionally accredited college in a non-nursing field are only required to complete the course work necessary for completion of the registered nursing program, including prerequisites and nursing coursework. These students are not required to complete any other courses required by the college for an associate degree.

Continuing Education for Nurses

Continuing Education Units (CEUs) for currently licensed RNs and LVNs can be earned through a variety of Palomar College academic classes. For information contact the Nursing Education Department (760) 744-1150, ext. 2580

The program prepares graduates to provide direct nursing care to patients in hospitals and other health agencies at a staff nurse level.

Learning Outcome(s):

1. Competently coordinate and administer nursing care for diverse patients, families, groups and populations with complex needs, across the lifespan and in a variety of settings.
2. Communicate therapeutically with patients, support persons, and members of the interdisciplinary team, including verbal, nonverbal, and written methods.
3. Advocate for positive individual and organizational outcomes with the interdisciplinary healthcare team through a shared purpose and workload.
4. Perform nursing care that minimizes risk of harm to patients, self and others in healthcare through both system effectiveness and individual performance.
5. Assimilate professional identity into nursing care by maintaining responsibility and accountability for nursing practice, adhering to legal and ethical standards, and exhibiting a spirit of inquiry.
6. Manage and coordinate care for patients and families accross the lifespan utilizing effective prioritization, delegation, and leadership skills.
7. Develop, implement, and evaluate an individualized teachingplan for patients, families, and care givers and members fo the healthcare team incorporating teaching and learning principles.
8. Formulate appropriate clinical judgments, as part of the nursing process, through the ongoing practice of noticing, interpreting, and responding to dynamic patients with complex needs.
9. Demonstrate competence in using electronic based resourcesto inform evidenced-based learning, clinical decision making, and promote safe clinical practice

Nursing Program Requirements and Support Courses: Required for all students completing the AS in Nursing Program.		**Units:** 28.0-32.0
Math Competency		0.0-4.0
Completion of intermediate algebra or the equivalent, or eligibility or completion of PSYC/SOC 205, BUS 204, or any course between MATH 100 and 245 (excluding MATH 197) based on multiple measures.		0.0-4.0
Science Competency		12.0
BIOL 210	Anatomy	4.0
BIOL 211	Physiology	4.0
BIOL 212	Fundamentals of Microbiology	4.0
Additional Related Support Courses-These courses should be completed prior to the start of the Nursing Program.		16.0
English Composition		4.0
ENGL C1000	Academic Reading and Writing	4.0
OR		
ENGL C1000E	Academic Reading and Writing	4.0
OR		
ESL 110	College Composition for Non-Native Speakers	4.0
HUM Any approved GE Area C course		3.0
PSYC C1000, 105, 110, 115, 120, 125, or 130		3.0
SOC 100, 105, 110, 125, 130, 135 or 145		3.0
COMM C1000, SPCH 105, SPCH 120 or SPCH 115		3.0

AS in Nursing Pathway		**Units:** 36.5
Semester I		10.0
NURS 117-MS	Introduction to Nursing Concepts	10.0
Semester II		9.0
NURS 118 Requirement		9.0
NURS 118-OB	Health Concepts for the Childbearing Family	3.0
NURS 118-BH	Concepts for Behavioral Health	3.0
NURS 118-P	Health Concepts for Pediatrics	3.0
Semester III		9.0
NURS 217 Requirement		9.0
NURS 217-G	Health Concepts for Geriatrics	3.0
NURS 217-S	Advanced Nursing Concepts I	3.0
NURS 217-M	Advanced Nursing Concepts II	3.0
Semester IV		8.5
NURS 218-MS	Transition to Professional Nursing Practice Concepts	8.5

LVN-RN Pathway

Eligibility for LVNs selecting the A.A. degree is based on several requirements. Students must: hold a valid, active LVN license in the state of California; graduate from an

accredited LVN/LPN program; and meet all requirements for admission as identified in the College Catalog.

LVNs are accepted into the second semester of the Nursing Program based on space available.

Semester II		
NURS 118-BH	Concepts for Behavioral Health	3.0
NURS 118-OB	Health Concepts for the Childbearing Family	3.0
NURS 118-P	Health Concepts for Pediatrics	3.0

Semester III		

NURS 217 Requirement		
NURS 217-G	Health Concepts for Geriatrics	3.0
NURS 217-S	Advanced Nursing Concepts I	3.0
NURS 217-M	Advanced Nursing Concepts II	3.0

Semester IV		
NURS 218-MS	Transition to Professional Nursing Practice Concepts	8.5

Total: 64.5-68.5

Nursing - A.A. Degree Major (18 units or more)

Nursing Education Department

Associate in Arts (AA) Degree in Nursing

This program prepares graduates to provide direct nursing care to patients in hospitals and other health agencies at a staff nurse RN level.

Learning Outcome(s):

1. Competently coordinate and administer nursing care for diverse patients, families, groups and populations with complex needs, across the lifespan and in a variety of settings.
2. Communicate therapeutically with patients, support persons, and members of the interdisciplinary team, including verbal, nonverbal, and written methods.
3. Advocate for positive individual and organizational outcomes with the interdisciplinary healthcare team through a shared purpose and workload.
4. Perform nursing care that minimizes risk of harm to patients, self and others in healthcare through both system effectiveness and individual performance
5. Assimilate professional identity into nursing care by maintaining responsibility and accountability for nursing practice, adhering to legal and ethical standards, and exhibiting a spirit of inquiry
6. Manage and coordinate care for patients and families accross the lifespan utilizing effective prioritization, delegation, and leadership skills
7. Develop, implement, and evaluate an individualized teachingplan for patients, families, and care givers and members fo the healthcare team incorporating teaching and learning principles
8. Formulate appropriate clinical judgements, as part of the nursing process, through the ongoing practice of noticing, interpreting, and responding to dynamic patients with complex needs
9. Demonstrate competence in using electronic based resourcesto inform evidenced-based learning, clinical decision making, and promote safe clinical practice

Nursing Program Requirements and Support Courses: Required for all students completing the AA in Nursing Program — **Units:** 34.0-38.0

Math Competency	0.0-4.0
Completion of intermediate algebra or the equivalent, or eligibility or completion of PSYC/SOC 205, BUS 204, or any course between MATH 100 and 245 (excluding MATH 197) based on multiple measures.	0.0-4.0

Science Competency	12.0

BIOL 210	Anatomy	4.0
BIOL 211	Physiology	4.0
BIOL 212	Fundamentals of Microbiology	4.0

Additional Related Support Courses-These courses should be completed prior to the start of the Nursing Program.		16.0
English Composition		4.0
ENGL C1000	Academic Reading and Writing	4.0
OR		
ENGL C1000E	Academic Reading and Writing	4.0
OR		
ESL 110	College Composition for Non-Native Speakers	4.0

HUM Any approved GE Area C course	3.0
PSYC C1000, 105, 110, 115, 120, 125, or 130	3.0
SOC 100, 105, 110, 125, 130, 135 or 145	3.0
COMM C1000, SPCH 105, SPCH 120 or SPCH 115	3.0

Additional AA Degree Competencies-These should be completed prior to the start of the Nursing Program.	6.0
One approved pair of American History & Institutions courses	6.0
OR	
an appropriate score on an approved American History & Institutions exam	

AA in Nursing Pathway	**Units:** 36.5

Semester I		10.0
NURS 117-MS	Introduction to Nursing Concepts	10.0

Semester II		9.0
NURS 118 Requirement		9.0
NURS 118-OB	Health Concepts for the Childbearing Family	3.0
NURS 118-BH	Concepts for Behavioral Health	3.0
NURS 118-P	Health Concepts for Pediatrics	3.0

Semester III		9.0

NURS 217 Requirement		9.0
NURS 217-G	Health Concepts for Geriatrics	3.0
NURS 217-S	Advanced Nursing Concepts I	3.0
NURS 217-M	Advanced Nursing Concepts II	3.0

Semester IV		8.5
NURS 218-MS	Transition to Professional Nursing Practice Concepts	8.5

LVN-RN Pathway

Eligibility for LVNs selecting the A.A. degree is based on several requirements. Students must: hold a valid, active LVN license in the state of California; graduate from an accredited LVN/LPN program; and meet all requirements for admission as identified in the College Catalog. LVNs are accepted into the second semester of the Nursing Program based on space available.

Semester II		
NURS 118-BH	Concepts for Behavioral Health	3.0
NURS 118-OB	Health Concepts for the Childbearing Family	3.0
NURS 118-P	Health Concepts for Pediatrics	3.0

Semester III		
NURS 217 Requirement		
NURS 217-G	Health Concepts for Geriatrics	3.0
NURS 217-S	Advanced Nursing Concepts I	3.0
NURS 217-M	Advanced Nursing Concepts II	3.0

Semester IV		
NURS 218-MS	Transition to Professional Nursing Practice Concepts	8.5

Total: 70.5-74.5

Nutrition and Dietetics - AS-T Transfer Major (18 units or more)

Design and Manufacturing Technologies Department

The Associate in Science in Nutrition and Dietetics for Transfer is designed to enhance the well-being of all students by providing them with the tools to demonstrate health promoting behaviors as related to nutrition. The program aims to educate students about the various career options in nutrition, dietetics, food science, and fitness. Instruction methods focus on delivering a high quality education that is evidence-based, engaging, and current to prepare students for the workforce, provide the coursework for transfer and general education, support lifelong learning, improve cultural awareness, and serve diverse populations. The Associate in Science in Nutrition and Dietetics for Transfer (AS-T.) degree provides a seamless path to students who wish to transfer to a CSU campus for Nutrition and Dietetics.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
2. The California General Education Transfer Curriculum (Cal-GETC)
3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in the major.

Learning Outcome(s):

1. Students will identify appropriate nutrition strategies for working with diverse populations with a variety of nutrition-related health needs.
2. Students will recognize the discipline's code of ethics and identify potential code of ethics violations.

Program Requirements **Units:** 15.0

NUTR 185	Science of Human Nutrition	3.0
		5.0
CHEM 110	General Chemistry	3.0
AND		
CHEM 110L	General Chemistry Laboratory	2.0
BIOL 212	Fundamentals of Microbiology	4.0
PSYC C1000	Introduction to Psychology	3.0

List A (Choose 2 courses from the list below) **Units:** 8.0-10.0

		5.0
CHEM 115	General Chemistry	3.0
AND		
CHEM 115L	General Chemistry Laboratory	2.0
CHEM 220	Organic Chemistry	5.0-0.0
		4.0
STAT C1000	Introduction to Statistics	4.0
OR		
STAT C1000E	Introduction to Statistics	4.0
OR		
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0
BIOL 210	Anatomy	4.0-0.0
BIOL 211	Physiology	4.0

List B **Units:** 3.0-0.0

NUTR 100	Introduction to Nutrition and Food Professions	3.0-0.0

Total: 26.0-25.0

Paramedic Training - A.S. Degree Major/Cert. Achievement (18 units or more)

Emergency Medical Education Department

The Paramedic Program prepares the student in all elements of prehospital advanced life support. Upon successful completion of the program, the student is eligible to take the State of California EMT-P certification exam, which is the National Registry Emergency Medical Technician-Paramedic Exam. Admission to the program is by special application. To be eligible for consideration, the applicant must:

1. Have 2000 hours pre-hospital experience, or equivalent as an EMT-Basic
2. Be eligible for admission to Palomar College
3. Meet academic requirements outlined in the Paramedic Program brochure produced by the EME Program and
4. Have completed BIOL 145 with a grade of "C" or better and EME 175 and EME 175L with a "B" or better.

Learning Outcome(s):

1. Evaluate subjective and objective patient assessment findings to identify a chief complaint utilizing therapeutic communication, and formulate differential diagnoses and a working diagnosis for a patient experiencing a medical emergency and/or traumatic emergency.
2. Formulate and execute a basic or advanced level treatment and transportation plan for a patient experiencing a medical emergency or traumatic emergency based on national, state and county protocols.

Prerequisite Courses   **Units:** 14.5

EME 106	Emergency Medical Technician (Lecture)	6.0
EME 106L	Emergency Medical Technician Skills (Laboratory)	1.5
EME 175	Paramedic Preparation (Lecture)	3.0
EME 175L	Paramedic Preparation Skills (Laboratory)	1.0
BIOL 145	Introduction to Anatomy and Physiology	3.0

Program Requirements   **Units:** 43.5-0.0

Students must achieve a minimum score of 80% in each of the required courses in order to continue in the program.

EME 206	Introduction to Paramedic Training (Lecture)	5.5-0.0
EME 206L	Introduction to Paramedic Training (Laboratory)	1.5-0.0
EME 207	Paramedic Medical Training (Lecture)	10.0-0.0
EME 207L	Paramedic Medical Skills (Laboratory)	2.0-0.0
EME 208	Paramedic Trauma Training (Lecture)	4.5-0.0
EME 208L	Trauma Skills (Laboratory)	1.0-0.0
EME 209	Paramedic Obstetrical and Pediatric Training (Lecture)	2.5-0.0
EME 209L	Paramedic Obstetrical and Pediatric Skills (Laboratory)	1.0-0.0
EME 210	Hospital Clinical Experience	3.5-0.0
EME 211	Clinical Integration I	1.0-0.0
EME 212	Clinical Integration II	1.0-0.0
EME 215	Field Internship	10.0-0.0

Total: 58.0-14.5

Pathway to Law - Certificate of Achievement (18 units or more)

Business Administration Department

The Pathway to Law Certificate of Achievement is a program that helps students prepare for law school by developing a broad background of knowledge and skills. These programs can help students succeed in undergraduate studies and law school, and may be considered by law school admissions officials.

Learning Outcome(s):

1. Competently construct and present written and oral arguments in a variety of settings to different audiences.
2. Analyze legal scenarios and apply legal principles to predict likely outcomes.
3. Explain the structure of the U.S. federal government and its relations to sources of law.

Introduction to Law   **Units:** 3.0-0.0

LS 121	Introduction to Law	3.0-0.0

Oral Communication   **Units:** 3.0

COMM C1000	Introduction to Public Speaking	3.0

English Composition   **Units:** 4.0

English Composition		4.0
ENGL C1000	Academic Reading and Writing	4.0
OR ENGL C1000E	Academic Reading and Writing	4.0
OR ESL 110	College Composition for Non-Native Speakers	4.0

Critical Thinking   **Units:** 3.0-4.0

Critical Thinking		3.0-4.0
ENGL C1001	Critical Thinking and Writing	4.0
OR ENG 203	Critical Thinking and Composition Through Literature	4.0
OR PHIL 116	Introduction to Logic	3.0-0.0
OR PHIL 200	Critical Thinking	3.0-0.0
OR PHIL 201	Symbolic Logic	3.0-0.0

Quantitative Reasoning   **Units:** 3.0-4.0

Quantitative Reasoning		3.0-4.0

BUS 204	Quantitative Business Analysis	4.0
OR		
STAT C1000	Introduction to Statistics	4.0
OR		
STAT C1000E	Introduction to Statistics	4.0
OR		
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0
OR		
SOC 180	Social Justice Statistics	3.0

U.S. History — Units: 3.0

U.S. History		3.0
HIST 101	History of the United States Through Reconstruction	3.0
OR		
HIST 102	History of the United States Since Reconstruction	3.0-0.0
OR		
AIS 101	History of American Indian Nations from Creation through the Present	3.0
OR		
AS 101	African-American History I	3.0-0.0
OR		
AS 102	African-American History II	3.0-0.0

OR		
CS 101	United States History from a Chicano Perspective I	3.0
OR		
CS 102	United States History from a Chicano Perspective II	3.0-0.0

Introduction to American Government — Units: 3.0-4.0

Introduction to American Government		3.0-4.0
POLS C1000	American Government and Politics	4.0
OR		
AIS 102	The American Indian and the U.S. Political System	3.0

College Success or Service/Civic Learning — Units: 0.5-6.0

College Success/Civil Learning		0.5-6.0
Volunteer or Internship Experience		
OR		
COUN 110	College Success	3.0-0.0
OR		
CE 100	Cooperative Education	0.5-4.0
OR		
CE 150	Cooperative Education Internship	0.5-6.0

Total: 22.5-28.0

Philosophy - AA-T Transfer Major (18 units or more)

Behavioral Sciences Department

The Associate of Arts in Philosophy for Transfer (AA-T) is designed to provide students an introduction to the major theories and methods of philosophical inquiry in preparation for upper-division course work at the university level. The degree offers the opportunity to gain a broad understanding of the main themes within the history of philosophy while at the same time developing analytical and critical reasoning abilities. Critical thinking is emphasized in all philosophy classes and students can apply their skills of critical thinking to philosophical problems in metaphysics, theory of knowledge, ethics, social and political philosophy and philosophy of religion.

The major introduces students to both Western and non-Western philosophical traditions.The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major.

Program Requirements (Select 2 courses) — Units: 6.0

Electives (select one)		3.0
PHIL 111	Introduction to Philosophy	3.0
OR		
PHIL 121	Introduction to Ethics	3.0

Electives (select one)		3.0
PHIL 116	Introduction to Logic	3.0
OR		
PHIL 201	Symbolic Logic	3.0

List A (Select 1 course) Any course not taken above, or — Units: 3.0

PHIL 113	Reasoning About Philosophical Issues	3.0
PHIL 140	History of Ancient Philosophy	3.0
PHIL 141	History of Modern Philosophy	3.0
PHIL 142	Contemporary Philosophical Movements	3.0
PHIL 200	Critical Thinking	3.0

List B (Select 2 courses) Any courses not selected from List A, or — Units: 6.0

| PHIL 122 | Social and Political Philosophy | 3.0 |
| PHIL 126 | Philosophy of Religion | 3.0 |

List C (Select 1 course) Any course not selected from List A or B, or — Units: 3.0

PHIL 114	Asian Philosophies	3.0
PHIL 125	Philosophy of Human Nature	3.0
PHIL 250	Philosophy in Literature	3.0

Total: 18.0

Photography - A.A. Degree Major or Certificate of Achievement (18 units or more)

Media Studies Department

The Photography Program offers students the opportunity to study photography from beginning to advanced levels. Our courses prepare students in a variety of areas, including fine art, editorial, and commercial photography. The program stresses development of creativity while offering a firm grounding in basic skills.

Learning Outcome(s):

1. produce images that demonstrate photography's visual and expressive elements using standard professional production equipment and processes.
2. achieve proper exposure by utilizing one of the several exposure mode settings on a digital camera.
3. demonstrate competency in creating significant and well-designed compositions using aperture, shutter speed and ISO.
4. Students will create a package of personalized marketing materials to enter the creative workforce
5. Students will create a personalized marketing strategy for their personal brand as a creative professional
6. Develop awareness and competency in self-promotion, marketing and the business of photography with strategic and tactical planning for a life-long career

Program Requirements   **Units:** 30.0

PHOT 120	Digital Photography	3.0
PHOT 100	Black and White Film Photography	3.0
PHOT 125	History and Criticism of Photography	3.0
PHOT 130	Photoshop for Photographers I	3.0
PHOT 140	Photojournalism	3.0
PHOT 160	Photography: Professional Practices	3.0
PHOT 209	Photographic Portfolio	3.0
PHOT 220	Commercial Photography	3.0
PHOT 225	Photographic Portraiture	3.0
PHOT 135	Photoshop for Photographers II	3.0

Electives (Select a minimum of 6 units)		**Units:** 6.0
PHOT 105	Intermediate Black and White Photography	3.0
PHOT 145	Advanced Photojournalism	3.0
PHOT 171	Landscape Photography and Culture	3.0
PHOT 210	Advanced Black and White Photography	3.0
PHOT 215	Creative Photography	3.0
PHOT 216	Alternative Photographic Processes	3.0

Total: 36.0

Pictorial Arts: Painting - A.A. Degree Major (18 units or more)

Art Department

This program is designed to serve as preparation for transfer to a four-year college or university, as well as enable the student to acquire skills in producing marketable fine art for gallery exhibition and commissions, or to enter into the commercial area.

The required courses for this degree transfer as lower division credits into participating CSU programs.

Transfer students are encouraged to consult Assist.org and four-year college or university catalogs for specific requirements, as well as see a Palomar College counselor.

Learning Outcome(s):

1. Student will demonstrate the ability to research, document, present, and relate to aesthetic and/or contextual source material and influences through the presentation of sketchbooks, journals or digital presentations.
2. Student will illustrate an understanding of the personal, conceptual, cultural or historical context of their original Painting projects.
3. Student will illustrate the ability to manifest the proper relationship of narrative, metaphor, abstraction, representation, composition and technique as they relate to their original Painting projects.
4. Students will demonstrate competency in the use of program specific language during the presentation and discussion of their own, as well as other's, drawings and paintings.
5. Students will demonstrate the ability to use the drawing and painting media, methods and procedures outlined in Course SLOs to communicate visual ideas and concepts.
6. Understand and utilize the formal elements and principles of two-dimensional design and composition to communicate visual concepts in drawing and painting.

Program Requirements   **Units:** 30.0

ART 102	Foundations of Drawing	3.0
ART 104	Design and Composition	3.0
ART 105	Three-Dimensional Form and Design	3.0
ART 106	Life Painting	3.0
ART 120	Foundations of Life Drawing	3.0
ART 165	History of Art I - Survey of Western Art	3.0
ART 166	History of Art II - Survey of Western Art	3.0
ART 200	Color Theory	3.0
ART 220	Introduction to Painting	3.0
ART 235	Watercolor Painting I	3.0

Electives (select 6 units)		**Units:** 6.0
ART 103	Intermediate Drawing	3.0
ART 121	Intermediate Life Drawing	3.0
ART 125	Introduction to Portraiture	3.0
ART 221	Painting	3.0
ART 236	Watercolor Painting II	3.0
ARTD 150	Digital Concepts and Techniques in Art	3.0
ARTI 210	Illustration I - Rendering Techniques	3.0
ARTI 220	Illustration II, Digital Techniques	3.0

Total: 36.0

Political Science - AA-T Transfer Major (18 units or more)

Economics, History & Political Science Department

The Associate in Arts for Transfer (AA-T) includes a selection of courses designed to prepare students to transfer to California State University campuses that offer bachelor's degrees in Political Science. The degree prepares students to demonstrate basic understanding of American democracy and the United States Constitution, political thought and ideas, law, as well as global dynamics of international security, political economy and other political systems throughout the world. The degree is ideal for students who plan to transfer for further study to pursue a baccalaureate degree in political science.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
2. The California General Education Transfer Curriculum (Cal-GETC)
3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major.

Learning Outcome(s):

1. Identify their own political ideology and the critical elements of their own political socialization process.
2. Identify the influence of Classical Liberalism on 17th-18th Century ideology, contemporary mainstream political parties, and Constitutional protections.
3. Identify and analyze international relations theories that explain war & peace, the nature of military alliances, trade agreements and globalization.
4. Identify social problems through the lens of democratic theory, as well as other comparative systems of government.

Program Requirements		**Units:** 10.0
POLS C1000	American Government and Politics	4.0
POSC 103	Introduction to Comparative Politics	3.0
POSC 110	Introduction to World Politics	3.0

List A: Select Two (minimum six units)		**Units:** 6.0-7.0
POSC 100	Introduction to Political Science	3.0
Statistics (Only one statistics course from the following group may satisfy List A)		3.0-4.0
BUS 204	Quantitative Business Analysis	4.0

OR STAT C1000	Introduction to Statistics	4.0
OR STAT C1000E	Introduction to Statistics	4.0
OR SOC 180	Social Justice Statistics	3.0
OR SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0

List B: Select one (3 units)		**Units:** 3.0
		3.0
AIS 101	History of American Indian Nations from Creation through the Present	3.0
OR AIS 102	The American Indian and the U.S. Political System	3.0
OR AIS 125	American Indians Today	3.0
OR AS 100	Introduction to African American Studies	3.0
OR AS 101	African-American History I	3.0
OR AS 102	African-American History II	3.0
OR CS 101	United States History from a Chicano Perspective I	3.0
OR CS 102	United States History from a Chicano Perspective II	3.0
OR CS 140	Chicana History and Feminism	3.0
OR ECON 101	Principles of Economics (Macro)	3.0
OR ECON 102	Principles of Economics (Micro)	3.0
OR HIST 160	History of the Middle East from 600 to the Present	3.0
OR LS 240	Civil Liberties and Procedures	3.0
OR SOC 110	Social Problems	3.0

Total: 19.0-20.0

Pre-Allied Health - A.S. Degree Major/Cert. Achievement (18 units or more)

Life Sciences Department

The Pre-Allied Health degree provides students with a strong biology and chemistry foundation in preparation for Allied Health career fields such as nursing, medical laboratory technology, physical therapy and other public health positions. The Pre-Allied Health degree includes pre-requisites for Registered Nursing programs at two-year colleges and is transferable to Nursing and Health Science majors at various four-year institutions. Some variation in degree requirements may exist for a particular Allied Health program; therefore, it is essential that students refer to the catalog of their intended transfer institution and contact a counselor to ensure that all required coursework is completed.

Learning Outcome(s):

1. Students completing the Pre-Allied Health A.S. Degree will be able to work safely in a laboratory or clinical setting with microorganisms.
2. Students completing the Pre-Allied Health A.S. Degree will be able to communicate core concepts central to biology using scientific terminology.

Program Requirements **Units:** 24.0

Select One		4.0
BIOL 100	Introductory Biology: General Biology	4.0
OR		
BIOL 102	Introductory Biology: Pre-Nursing and Allied Health	4.0
OR		
General Biology and Lab		4.0
BIOL 101	General Biology (Lecture)	3.0
AND		

BIOL 101L	Introductory Biology: General Biology (Laboratory)	1.0
CHEM 104	General Organic and Biochemistry	5.0
NUTR 165	Introduction to Human Nutrition	3.0
BIOL 210	Anatomy	4.0
BIOL 211	Physiology	4.0
BIOL 212	Fundamentals of Microbiology	4.0

Support Courses: Select two (6.0 units) **Units:** 6.0

ANTH 105	Introduction to Cultural Anthropology	3.0
PSYC C1000	Introduction to Psychology	3.0
PSYC 110	Developmental Psychology - Child Through Adult	3.0
SOC 100	Introduction to Sociology	3.0

Total: 30.0

Psychology - AA-T Transfer Major (18 units or more)

Behavioral Sciences Department

Psychology is a discipline that uses the scientific method to study animal and human behavior. This Associate in Arts in Psychology for Transfer degree offers students the opportunity to meet lower division transfer requirements for a major in Psychology, leading to a Bachelor of Arts or Bachelor of Science in Psychology at a California State University (CSU). Students who earn this degree will receive priority admissions at a CSU. The Associate in Arts in Psychology for Transfer degree is the first step in preparing students for professions and areas of interest related to psychology such as Clinical Psychology, Counseling, Medicine, Law, Management, Business, Social Work, and Teaching.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
2. The California General Education Transfer Curriculum (Cal-GETC)
3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is also an acceptable grade for courses in the major.

Learning Outcome(s):

1. demonstrate fundamental knowledge and comprehension of the major concepts, theoretical perspectives, historical trends, and empirical findings to discuss how psychological principles apply to behavioral problems.
2. develop basic skills and concepts in interpreting behavior, studying research, and applying research design principles to drawing conclusions about psychological phenomena.
3. identify and apply formal regulations that govern professional ethics in psychology and begin to embrace the values that will contribute to positive outcomes in work settings and in building a society responsive to multicultural and global concerns.
4. demonstrate competence in writing and in oral and interpersonal communication skills; write a cogent scientific

argument, present information using a scientific approach, engage in discussion of psychological concepts, explain the ideas of others, and express their own ideas with clarity.
5. develop work habits and ethics to succeed in academic settings, including psychology-specific content and skills, effective self-reflection, project-management skills, teamwork skills, and career preparation.

Program Requirements **Units:** 11.0

PSYC C1000	Introduction to Psychology	3.0
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0
PSYC 230	Research Methods in Psychology	4.0

List A (Select 1 course) **Units:** 4.0

BIOL 100	Introductory Biology: General Biology	4.0
PSYC 210	Physiological Psychology	4.0

List B (Select 1 course) **Units:** 3.0

PSYC 110	Developmental Psychology - Child Through Adult	3.0
PSYC 120	Social Psychology	3.0
PSYC 211	Introduction to Cognitive Psychology	3.0
PSYC 235	Principles of Learning and Behavior Modification	3.0

List C (Select 1 course) **Units:** 3.0

PSYC 105 / SOC 105	Marriage, Family and Intimate Relationships	3.0
PSYC 115	The Psychology of Personal Growth and Development	3.0
PSYC 125 / SOC 125	Human Sexuality	3.0
PSYC 130	Psychology of Gender	3.0
PSYC 225	Psychology of Abnormal Behavior	3.0

Total: 21.0

Public Relations - Certificate of Achievement (16 units or more)

Media Studies Department

This certificate includes a selection of courses that provides academic preparation to individuals who are seeking employment, or are currently employed, in public relations.

Learning Outcome(s):

1. Apply ethical communication principles and practices.
2. Compose written public relations materials in a coherent, concise and appropriate format for social media, marketing and public relations campaigns.
3. Plan and initiate a specific Public Relations Campaign.
4. Apply appropriate technology (social media, video, print) to the creation and dissemination of messages.

Program requirements   **Units:** 17.0

COMM 104	Introduction to Public Relations	3.0
JOUR 101	Newswriting and Reporting	3.0
JOUR 200	Mastering Social Media	3.0
DBA 105	Multimedia Storytelling	2.0
COMM 204	Public Relations Writing and Media Strategies	3.0
Elective (select one course)		3.0
CE 150 OR	Cooperative Education Internship	3.0
BUS 155 OR	Marketing	3.0
BUS 150	Advertising	3.0

Total: 17.0

Public Works Management - Level II - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

Specifically designed for individuals employed by or seeking employment in public works organizations in San Diego County. Introduces management and administrative concepts to field staff. Classes are designed to prepare Lead Workers for front line supervisory positions in the Public Works field. This is a cooperative program offered by Citrus, Palomar and Santiago Canyon Colleges in collaboration with and approved by the Maintenance Superintendents Association and American Public Works Association.

Learning Outcome(s):

1. Describe the goals and objectives of a project and create a schedule of workers and a timeline for the project.
2. Evaluate a project applying the San Diego Regional Standard Drawings and associated specifications for public works construction.
3. Research and develop a operating budget for a public works department.

Program Requirements   **Units:** 21.0

PWM 50	Introduction to Public Works	3.0
PWM 51	Street Construction and Maintenance	3.0
PWM 52	Asphalt and Portland Cement	3.0
PWM 53	Public Works Inspection	3.0
PWM 55	Public Works Administration	3.0
PWM 57	Plan Interpretation and Cost Estimating	3.0
WTE 160	Public Works Management	3.0

Electives (Select 2 courses)   **Units:** 3.0-6.0

BMGT 101	Introduction to Management	3.0
BUS 125	Business English	3.0
BUS 138	Business Ethics	2.0
SPCH 115	Interpersonal Communication	3.0

Total: 24.0-27.0

Quality Control/Inspection Technician - Certificate of Achievement (8-15 units)

Design and Manufacturing Technologies Department

The Quality Control (QC) / Inspection Technician Certificate will provide students the knowledge and skills needed to obtain employment in a Quality Control Department. Students will learn the basic skills needed to properly use precision measuring tools, coordinate measuring machines (CMM), and interpret engineering blueprints. Additionally, students will gain skills in the application of Technical math and develop a basic understanding of the system for defining and communicating engineering tolerances through the use of Geometric Dimensioning and Tolerancing (GD&T).

Learning Outcome(s):

1. Read and interpret industrial blueprints.
2. Upon completion students will be able to properly use and care for measuring tools

3. Upon completion students will have the basic skills needed to use CMM, Faro Arm, and Optical Comparator to measure and inspect manufactured parts and goods

Program Requirements   **Units:** 9.0

MACH 117	Blueprint Reading and Geometric Dimensioning and Tolerancing (GD+T)	3.0
IT 108 / WELD 108	Technical Mathematics	3.0
MACH 120	Precision Measure and Metrology	3.0

Total: 9.0

Radio and Television - A.A. Degree Major or Certificate of Achievement (18 units or more)

Media Studies Department

Provides students with the basic skills required for employment in the media production field of their choosing. This degree allows students to choose their area of focus while providing real-world, hands-on experiences throughout their individualized academic path.

Learning Outcome(s):

1. Write and produce scripts in a variety of formats for multi-media products (i.e. - television, radio, podcasts, commercials and film) that adhere to professional standards and best practices.
2. Proficient in the operation of production equipment associated with radio, television and multi-media broadcast products; including field and studio cameras, field and studio lights, microphones, audio boards, video and audio switchers.
3. Proficient in the operation of audio, video and animation post-production software for the purposes of producing a variety of multi-media, film and broadcast products that adhere to professional standards.

Program Requirements — Units: 15.0-6.0

CINE 170 / DBA 170	Introduction to Video Editing	3.0
DBA 110	Broadcast and Media Writing	3.0-0.0
Introduction to Media Production - Choose One		3.0
DBA 120	Digital Television Studio Production	3.0
OR		
CINE 125 / DBA 125	Beginning Single Camera Film and Video Production	3.0
Audio Production - Choose One		3.0-0.0
DBA 130	Radio Production	3.0-0.0
OR		
DBA 230	Digital Audio Avid Pro Tools	3.0-0.0
Advanced Production or Advanced Post-Production - Choose One		3.0-0.0

DBA 270 / CINE 270	Advanced Video Editing	3.0-0.0
OR		
CINE 275 / DBA 275	Avid Editing for Television and Film	3.0-0.0
OR		
CINE 225 / DBA 225	Intermediate Single Camera Film and Video Production	3.0-0.0
OR		
DBA 240A	Basic Television News/Sports	3.0-0.0

Electives - Select one course from below or any course requirement not already used from above. — Units: 3.0

CINE 115 / DBA 115	Creative Writing for Television and Cinema	3.0-0.0
DBA 100	Introduction to Radio and TV	3.0-0.0
DBA 298C	Advanced Broadcast Internships[Multiple Smaller Unit Internships]	3.0-0.0
DBA 135A	Basic Radio Station Operations	3.0-0.0
DBA 135B	Beginning Radio Station Operations	3.0-0.0
DBA 135C	Intermediate Radio Station Operations	3.0-0.0
DBA 135D	Advanced Radio Station Operations	3.0-0.0
DBA 240B	Beginning Television News/Sports	3.0-0.0
DBA 240C	Intermediate Television News/Sports	3.0-0.0
DBA 240D	Advanced Television News/Sports	3.0-0.0
GCMW 204	Motion Graphics for Multimedia	3.0-0.0

[Multiple Smaller Unit Internships]A student must take three units of an internship to meet this requirement. If a student elects to take any combination of DBA 298A (1 Unit) and DBA 298B (2 Units) this requirement can be satisfied.

Total: 18.0-9.0

Real Estate Appraisal License Preparation - Certificate of Proficiency (Less than 18 units)

Business Administration Department

Real Estate Appraiser Trainee license is required of individuals who are to be employed as appraisers under the control and supervision of licensed or certified real estate appraisers. A license may be obtained by a person who does not immediately intend to be employed by an appraiser. However, no real estate appraisal activity may be performed unless the trainee is in the employ of a licensed or certified real estate appraiser.

An applicant to take the Real Estate Appraisal examination must:

1. Be at least 18 years of age or older.
2. Meet minimum Educational requirements: Applicants for the Trainee or Residential license must provide evidence of successful completion of 150 hours of real estate appraisal education, including 15 hours of USPAP (Uniform Standards of Professional Appraisal Practice). Applicants for the Certified Residential license must provide proof of completion of 200 hours of real estate appraisal education (including 15 hours of USPAP). Palomar College does NOT provide further training that will prepare a student to take the Certified General License.

3. Have the appropriate Experience: No experience is required before obtaining the Real Estate Appraiser Trainee license. 2,000 hours and encompassing no less than 12 months of acceptable appraisal experience is required before obtaining the residential license. 2,500 hours and encompassing no less than 2.5 years of acceptable appraisal experience is required before obtaining the Certified Residential License. This program is designed to meet the educational requirements of two licensing levels of the Office of Real Estate Appraisers (Trainee, and Residential). RE 105, RE 115 or RE 130 is recommended to meet the additional requirements of the Certified Residential License. The program does NOT meet the requirements to prepare a student for the Certified General License.

AQB/OREA Real Property Appraiser Qualifying Criteria (Effective January 1, 2008)

OREA License Levels	Basic Education Requirements	College Level Requirements	Experience
Trainee (AT)	150 Hours	N/A	N/A
Residential	150 Hours	N/A	2,000 Hours (accumulated over at least a 12-month period)
Certified Residential (AR)	200 Hours	Associate Degree*	2,500 Hours (accumulated over at least a 30-month period)
Certified General (AG)	300 Hours	Bachelor's Degree**	3,000 Hours (accumulated over at least a 30-month period)

*In lieu of the Associate Degree, an applicant can complete 21 college semester credits in courses covering: English Composition; Principles of Economics (Micro or Macro); Finance, Algebra, Geometry, or higher mathematics; Statistics; Introduction to Computers; and Business or Real Estate Law.

**In lieu of the Bachelor's Degree, an applicant can complete 30 college semester credits in courses covering: English Composition; Micro Economics; Macro Economics; Finance, Algebra, Geometry, or higher mathematics; Statistics; Introduction to Computers; Business or Real Estate Law; and two elective courses in accounting, geography, ag-economics, business management, or real estate.

Learning Outcome(s):

1. Interpret and explain the findings from a Uniform Appraisal Report and prepare a standard appraisal form in compliance with residential and commercial and industrial property appraisal guidelines.
2. Recognize and apply the requirements for ethical behavior and competent performance by appraisers that are set forth in the Uniform Standards of Professional Appraisal Practice (USPAP).
3. Utilize all three major methods of real estate appraisal: sales comparison, cost approach, and income approach, and reconcile methods to assess propery values; Recommend a highest and best use and defend your preliminary conclusions after cumulative analysis.

Program Requirements **Units:** 15.0

RE 100	Real Estate Principles	3.0
RE 110	Real Estate Appraisal	3.0
RE 111	Advanced Real Estate Appraisal	3.0
RE 115	Real Estate Practice	3.0
RE 150	Residential Appraisal	3.0

Total: 15.0

Real Estate Broker License Preparation - A.S. Degree Major/Cert. Achievement (18 units or more)

Business Administration Department

A Real Estate Salesperson license is required of individuals who are to be employed as salespersons under the control and supervision of a licensed real estate broker.

Minimum Requirements to qualify to take the Real Estate Salesperson examination:

1. Age: 18 years of age or older.
2. Honesty: License applicants must be honest and truthful.
3. Education: Applicants must provide evidence of successful completion of three courses: Real Estate Principles, Real Estate Practice, and one additional elective course listed below. Completion of the Real Estate Salesperson License Preparation Certificate satisfies the California Department of Real Estate-mandated pre-license requirements.

This program is designed to prepare the student for an entry-level position in the Real Estate sales field.

Learning Outcome(s):

1. Explain, Evaluate, and Recommend methods of holding title, agency relationships for real estate transactions, and contract contingencies to hypothetical clients.
2. Manage and Explain real estate marketing and sales cycles and the transaction fulfillment process including listing, pricing, and marketing properties.
3. Identify, Interpret, and Apply industry ethics, state and federal housing laws, and Standards of Practice to real estate dealings and transactions.

Program Requirements **Units:** 19.0

RE 100	Real Estate Principles	3.0
RE 105	Real Estate Finance	3.0
RE 110	Real Estate Appraisal	3.0
RE 115	Real Estate Practice	3.0
RE 120	Legal Aspects of Real Estate	3.0
ACCT 201	Financial Accounting	4.0

Electives (Select 6 units) **Units:** 6.0

RE 150	Residential Appraisal	3.0
RE 111	Advanced Real Estate Appraisal	3.0
RE 140	Introduction to Property Management	3.0
BUS 117	Legal Environment of Business	3.0

Total: 25.0

Real Estate Salesperson License Preparation - Certificate of Proficiency (Less than 18 units)

Business Administration Department

A Real Estate Salesperson license is required of individuals who are to be employed as salespersons under the control and supervision of a licensed real estate broker.

Minimum Requirements to qualify to take the Real Estate Salesperson examination:

1. Age: 18 years of age or older.

2. Honesty: License applicants must be honest and truthful.

3. Education: Applicants must provide evidence of successful completion of three courses: Real Estate Principles, Real Estate Practice, and one additional elective course listed below. Completion of the Real Estate Salesperson License Preparation Certificate satisfies the California Department of Real Estate-mandated pre-license requirements.

This program is designed to prepare the student for an entry-level position in the Real Estate sales field.

Learning Outcome(s):

1. Explain, Evaluate, and Recommend methods of holding title, agency relationships for real estate transactions, and contract contingencies to hypothetical clients.

2. Manage and Explain real estate marketing and sales cycles and the transaction fulfillment process including listing, pricing, and marketing properties.

3. Identify, Interpret, and Apply industry ethics, state and federal housing laws, and Standards of Practice to real estate dealings and transactions.

RE 100 - Real Estate Principles RE 115 - Real Estate Practice		**Units:** 6.0
RE 100	Real Estate Principles	3.0
RE 115	Real Estate Practice	3.0

Electives (Select 3-7 units)		**Units:** 3.0-7.0
RE 105	Real Estate Finance	3.0
RE 110	Real Estate Appraisal	3.0
RE 120	Legal Aspects of Real Estate	3.0
RE 140	Introduction to Property Management	3.0
ACCT 201	Financial Accounting	4.0
BUS 117	Legal Environment of Business	3.0

Total: 9.0-13.0

Registered Dental Assisting - A.S. Degree Major/Cert. Achievement (18 units or more)

Dental Assisting Program Department

To remain enrolled in the program, students must earn a minimum grade of "C" (2.0) in each of the required courses. Students must pass laboratory and clinical evaluations at 75% competency or a substandard grade will be assigned for the course. A student may fail a dental assisting course on the basis of clinical practice even though theory grades may be passing.

Admission to the Dental Assisting program is by special application. The Dental Assisting program must be completed within two years or the student may need to repeat all required Dental Assisting courses. Contact the department for more information. NOTE: For course repetition purposes, federal financial aid would not be available to students who have already attempted and/or completed required Dental Assisting courses.

Learning Outcome(s):

1. Students will be safe and competent dental health care professionals by being in compliance with both California State and Federal regulations and standards.

2. Students will be prepared for employment as a dental health care professional.

3. Students will meet requirements to take the California Registered Dental Assistant examination.

Program Requirements		**Units:** 10.0-11.0
DA 50	Introduction to Dental Sciences and Dental Occupations*	3.0
DA 57	Dental Sciences and Anatomy*	3.0
Elective (select one of the following three courses)		4.0-6.0

ENGL C1000	Academic Reading and Writing	4.0
OR ENGL C1000E	Academic Reading and Writing	4.0
OR ESL 110	College Composition for Non-Native Speakers	4.0
OR ESL 106	Multicultural Humanities	6.0

Proof of current BLS for Healthcare Providers Certificate

First Semester		**Units:** 14.5
DA 60	Dental Materials	3.5
DA 65	Dental Practice Management	2.0
DA 70	Dental Radiography I	2.5
DA 75	Dental Operative Procedures	5.0
DA 82	Preventive Dentistry I	1.5

Second Semester		**Units:** 12.0
DA 91	Clinical Rotation I	1.0
DA 71	Dental Radiography II	0.5
DA 83	Preventive Dentistry II	0.5
DA 85	Advanced Dental Procedures	5.0
DA 92	Advanced Clinical Rotation	5.0

Total: 36.5-37.5

Regular Basic Course: Police Academy Module I - Certificate of Achievement (16 units or more)

Public Safety Programs

The Basic Police Academy Certificate of Achievement Module I satisfies mandated training requirements for a California Basic Peace Officers Standards and Training (POST) Module I Certificate of Completion. The program is POST-certified and prepares the student for work as a full-time sworn Peace Officer or a Level I Reserve Peace Officer in the State of California.

Admission to the program is by special application (www.palomar.edu/policeacademy). To be eligible for consideration, the applicant must (1) be free of felony conviction or conviction of a misdemeanor which prohibits possession of a firearm, (2) possess a valid driver's license, (3) pass written, oral, and physical fitness examinations, (4) pass a medical examination, (5) be 18 years old (required by law to be age 21 for employment), and (6) pass a Department of Justice firearms clearance.

In addition to passing the required college examinations, the student must obtain passing scores on all POST Examinations, and all skills/lab portions within the Academy.

The Police Academy units may be applied toward the Administration of Justice Associate's Degree requirements.

Learning Outcome(s):

1. Classify and describe basic criminal law, procedures and radio code communication for law enforcement in the State of California as defined by the California Commission on Peace Officers Standards and Training (POST).
2. Demonstrate professionalism, diversity and ethics for law enforcement in the State of California as defined by the California Commission on Peace Officers Standards and Training (POST).
3. Demonstrate proficiency in firearms, defensive tactics, and use of force procedures for law enforcement in the State of California as defined by the California Commission on Peace Officers Standards and Training (POST).
4. Demonstrate proper methods to manage critical incidents and write law enforcement reports as defined by the California Commission on Peace Officers Standards and Training (POST).
5. Demonstrate proper methods of traffic enforcement and patrol techniques for law enforcement in the State of California as defined by the California Commission on Peace Officers Standards and Training (POST).
6. Evaluate the importance of physical fitness and development of lifelong health & wellness practices, and identify how diverse applications of fitness promote equity and contribute to social wellness & public health. Students will participate in physical fitness training exercises that include cardiorespiratory, muscular strength, muscular endurance, flexibility, and balance. Assessment of fitness and tracking progress will be included as set forth by the California Commission on Peace Officer Standards and Training (POST).

Program Requirements		**Units:** 17.0
AJ 88A	Basic Police Academy Module IA	5.0
AJ 88B	Basic Police Academy Module IB	12.0
		Total: 17.0

Regular Basic Course: Police Academy Module II - Certificate of Achievement (8-15 units)

Public Safety Programs

The Basic Police Academy Certificate of Achievement Module II satisfies mandated training requirements for a California Basic Peace Officers Standards and Training (POST) Module II Certificate of Completion. The program is POST-certified and prepares the student for work as a sworn Level II Reserve Peace Officer in the State of California.

Admission to the program is by special application (www.palomar.edu/policeacademy). To be eligible for consideration, the applicant must (1) be free of felony conviction or conviction of a misdemeanor which prohibits possession of a firearm, (2) possess a valid driver's license, (3) pass written, oral, and physical fitness examinations, (4) pass a medical examination, (5) be 18 years old (required by law to be age 21 for employment), and (6) pass a Department of Justice firearms clearance.

In addition to passing the required college examinations, the student must obtain passing scores on all POST Examinations, and all skills/lab portions within the Academy.

The Police Academy units may be applied toward the Administration of Justice Associate's Degree requirements.

Learning Outcome(s):

1. Classify and describe basic criminal law, procedures and radio code communication for law enforcement in the State of California as defined by the California Commission on Peace Officers Standards and Training (POST).
2. Demonstrate professionalism, diversity and ethics for law enforcement in the State of California as defined by the California Commission on Peace Officers Standards and Training (POST).
3. Demonstrate proficiency in firearms, defensive tactics, and use of force procedures for law enforcement in the State of California as defined by the California Commission on Peace Officers Standards and Training (POST).
4. Conduct preliminary investigations and respond to crimes in progress calls through practical exercises as defined by the California Commission on Peace Officers Standards and Training (POST).

Program Requirements		**Units:** 11.0
AJ 87A	Basic Police Academy Module IIA	5.5
AJ 87B	Basic Police Academy Module IIB	5.5
		Total: 11.0

Regular Basic Course: Police Academy Module III - Certificate of Achievement (8-15 units)

Public Safety Programs

The Basic Police Academy Certificate of Achievement Module III satisfies mandated training requirements for a California Basic Peace Officers Standards and Training (POST) Module III Certificate of Completion. The program is POST-certified and prepares the student for work as a sworn Level III Reserve Peace Officer in the State of California.

Admission to the program is by special application (www.palomar.edu/policeacademy). To be eligible for consideration, the applicant must (1) be free of felony conviction or conviction of a misdemeanor which prohibits possession of a firearm, (2) possess a valid driver's license, (3) pass written, oral, and physical fitness examinations, (4) pass a medical examination, (5) be 18 years old (required by law to be age 21 for employment), and (6) pass a Department of Justice firearms clearance.

In addition to passing the required college examinations, the student must obtain passing scores on all POST Examinations, and all skills/lab portions within the Academy.

The Police Academy units may be applied toward the Administration of Justice Associate's Degree requirements.

Learning Outcome(s):

1. Classify and describe basic criminal law, procedures and radio code communication for law enforcement in the State of California as defined by the California Commission on Peace Officers Standards and Training (POST).
2. Demonstrate professionalism, diversity and ethics for law enforcement in the State of California as defined by the California Commission on Peace Officers Standards and Training (POST).
3. Demonstrate proficiency in firearms, defensive tactics, and use of force procedures for law enforcement in the State of California as defined by the California Commission on Peace Officers Standards and Training (POST).

Program Requirements		Units: 10.0
AJ 86	Basic Police Academy Module III	7.0
AJ 85	Police Academy Preparation	3.0

Total: 10.0

Retail Management - Certificate of Achievement (18 units or more)

Business Administration Department

A comprehensive program designed to prepare current and future retail employees for the fast paced challenges in a competitive retail environment. This certificate has been endorsed by the Western Association of Food Chains and its member companies.

Learning Outcome(s):

1. Student will be able to apply the tactical and strategic business skills necessary for management positions in a retail environment.
2. Students will be able to create and manage promotions appropriate for a retail environment.

Program Requirements		Units: 25.0
ACCT 201	Financial Accounting	4.0
BMGT 101	Introduction to Management	3.0
BMGT 110	Human Resource Management	3.0
BMGT 130	Management/Leadership Issues	3.0
CSIT 105	Computer Concepts and Applications	3.0
FASH 125 / BUS 145	Retailing/Promotion	3.0
BUS 155	Marketing	3.0
BUS 205	Business Communication	3.0

Total: 25.0

Screen Printer - Certificate of Proficiency (Less than 18 units)

Graphic Communications Department

Recent advances in technology have allowed screen printing to compete on a large scale with other printing processes. Productive, challenging careers are growing in the screen printing field at a steady rate. Palomar's screen printing process classes prepare students for duties in project planning, copy preparation, camera operation, screen preparation, electronic prepress, stencil making, screen printing, and sales.

Learning Outcome(s):

1. Screen Print a simple design in various color models using standard industry practices.
2. Screen Print a multi-color design in spot color using standard industry practices.

Program Requirements		Units: 9.0
GCIP 170	Screen Printing	3.0
GCIP 172	Textile Screen Printing	3.0
GCIP 270	Commercial Screen Printing	3.0

Total: 9.0

Screen Printer I - Certificate of Achievement (8-15 units)

Graphic Communications Department

Recent advances in technology have allowed screen printing to compete on a large scale with other printing processes. Productive, challenging careers are growing in the screen printing field at a

steady rate. Palomar's screen printing process classes prepare students for duties in project planning, file preparation, equipment

operation, screen preparation, electronic prepress, stencil making, screen printing, and sales.

Learning Outcome(s):

1. GCIP 170 Screen Printing - Screen Print a simple design using standard industry practices.
2. GCIP 170 Screen Printing - Students will be able to print a mulit-color screen print job using spot colors

Program Requirements		**Units:** 9.0
GCIP 140	Photoshop for Digital Imaging I	3.0
GCIP 152	Digital Publishing/Illustrator I	3.0
GCIP 170	Screen Printing	3.0
		Total: 9.0

Screen Printing - A.S. Degree Major/Cert. Achievement (18 units or more)

Graphic Communications Department

Prepares students for entry-level positions in project planning, copy preparation, screen preparation, stencil making, printing, and sales. Due to recent advances in screen printing technology, screen printing is becoming very commercialized. These breakthroughs have allowed screen printing to compete on a large scale with other processes. Productive, challenging careers are growing in the screen printing field at a steady rate.

Learning Outcome(s):

1. Screen Print designs on paper and textiles using various color models according to standard industry practices.
2. Students will print a multi-color screen print job using spot colors.

Program Requirements		**Units:** 27.0
GCIP 105	Design for Print Production	3.0
GCIP 140	Digital Imaging/Photoshop I	3.0
GCIP 141	Digital Imaging/Photoshop II	3.0
GCIP 152	Digital Publishing/Illustrator I	3.0
GCIP 170	Screen Printing	3.0
GCIP 172	Textile Screen Printing	3.0
GCIP 252	Digital Publishing/Illustrator II	3.0
GCIP 270	Commercial Screen Printing	3.0
BUS 152	Social Media for Business	3.0
		Total: 27.0

Small Business Entrepreneurship - Certificate of Achievement (8-15 units)

Business Administration Department

Students learn to create, market and maintain their own business in this four course sequence which includes writing a business plan, working closely with entrepreneurial and experienced business coaches, and interning in their field of choice. Topics include: principles, practices, and strategies of small business in wholesale, retail, or service operations as well as marketing principles and practices applicable to developing a successful business.

Learning Outcome(s):

1. Upon completion of this program, students will be able to create, market and maintain their own small business.
2. Upon completion of this program, students will be able to apply the principles, practices, and strategies of small business management in wholesale, retail, or service operation.

Program Requirements		**Units:** 8.5
BMGT 153	Small Business Entrepreneurship	3.0
Select one course		3.0
BUS 152	Social Media for Business	3.0
OR		
BUS 155	Marketing	3.0
ACCT 110	Quickbooks	2.0
CE 100	Cooperative Education	0.5
		Total: 8.5

Social Justice Studies: American Indian Studies and American Studies - AA-T Transfer Major (18 units or more)

American Indian Studies Department

The Associate in Arts in Social Justice Studies-American Indian Studies for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to pursue a baccalaureate degree in American Indian Studies. This degree will provide students with an opportunity to examine the historical and contemporary experiences of American Indian tribes and their peoples residing in the United States. Students experience an interdisciplinary approach that combines culture, sociology, politics, and the arts. Courses engage in a rigorous study of race and racism, class, gender, sexuality, religious conquest. Students will be able to compare and contrast American Indian economic, political and religious institutions used to adapt to specific geographical regions throughout the United States before and after non-Indian contact and recognize the diverse physical and cultural adaptive strategies created by tribes to retain their political and cultural sovereignty.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
2. The California General Education Transfer Curriculum (Cal-GETC)
3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major if the course is taken on a Pass/No Pass. basis.

Learning Outcome(s):

1. Demonstrate familiarity, and a working knowledge of the theories, cultural and identity differences, tribal concepts,

histories, and current trends within the interdisciplinary fields of American Indian Studies

2. Articulate general historic and contemporary socio-political issues within the interdisciplinary fields of American Indian Studies.

Program Requirements **Units:** 9.0

AIS 100	Introduction to American Indian Studies	3.0
		3.0
SOC 170	Introduction to Justice Studies	3.0
OR		
SOC 200 / AMS 200 / MCS 200	Race, Class, and Ethnic Groups in America	3.0
SOC 175	Introduction to LBGTQI Studies	3.0

List A: Choose three courses (9.0 units) from two different areas: **Units:** 9.0

Area 1: History or Government		
AIS 101	History of American Indian Nations from Creation through the Present	3.0
AIS 102	The American Indian and the U.S. Political System	3.0
Area 2: Arts and Humanities		
AIS 105	History of Native American Arts	3.0-0.0
Area 3: Social Sciences		
AIS 130 / ANTH 130	Prehistoric Cultures of North America	3.0-0.0
AIS 165	Native Women in the Americas	3.0
Area 4: Major Preparation for a CSU		
AIS 150	American Indian Philosophy and Religion	3.0-0.0

Total: 18.0

Social Justice Studies: Chicana and Chicano Studies - AA-T Transfer Major (18 units or more)

Ethnic Studies Department

The Associate in Arts in Social Justice Studies-Chicana and Chicano Studies for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to pursue a baccalaureate degree in Chicana and Chicano Studies. Students completing this degree will have an introductory foundation for the field of Social Justice Studies-Chicana and Chicano Studies. The AA-T is designed to provide students with an opportunity to examine the historical and contemporary experiences of persons of Mexican descent residing in the United States. Students will be exposed to an interdisciplinary approach that combines culture, sociology, politics, and the arts; along with a variety of topics. More specifically, the curriculum seeks to teach social awareness, challenge systems of oppression, and provide a critical history of the Mexican people and their relationship to power. Courses highlight a rigorous study of race and racism, class, gender, sexuality, religion, and trace the impacts of colonialism and white supremacy. Nevertheless, Mexican culture continues to be resilient and rooted in Mesoamerican ways of life and cultural patterns. The field is vast and ever changing, yet it remains true to the core tenets of social justice, decolonization, self and community empowerment, and especially freedom from subjugation.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.

Learning Outcome(s):

1. Upon successful completion of the major requirements for this degree, students will be able to demonstrate knowledge and understanding of the history of the Chicana/o in the United States.

2. Upon successful completion of the major requirements for this degree, students will be able demonstrate knowledge of theoretical perspectives of social justice in Chicano Studies, institutional oppression, Structural violence and marginalization, de-colonialism, and intersectional identities.

Program Requirements **Units:** 9.0-6.0

SOC 170	Introduction to Justice Studies	3.0
SOC 175	Introduction to LBGTQI Studies	3.0
CS 100	Introduction to Chicano Studies	3.0-0.0

List A: Take one course from each area (9 units): **Units:** 9.0

Area 1: History or Government		
CS 101	United States History from a Chicano Perspective I	3.0
Area 2: Arts and Humanities		
CS 140	Chicana History and Feminism	3.0
Area 3: Social Science		
CS 102	United States History from a Chicano Perspective II	3.0-0.0

Total: 18.0-15.0

Social Justice: Women, Gender and Sexuality Studies - AA-T Transfer Major (18 units or more)

Behavioral Sciences Department

The Associate in Arts in Gender Studies (Social Justice Studies-Women, Gender and Sexuality Studies) for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to pursue a baccalaureate degree in Women, Gender and Sexuality Studies. Students completing this degree will have an introductory foundation for the field of Social Justice as it relates to these discipline areas. The AA-T is designed to provide students with an opportunity to examine the historical and contemporary experiences of women and LGBTQI+. Students will be exposed to an interdisciplinary approach that combines culture, sociology, politics, history, literature and the arts. More specifically, the curriculum seeks to teach social awareness, challenge systems of oppression, and provide a critical history of often marginalized groups. Courses highlight a rigorous study of race and racism, class, gender, sexuality, religion, and trace the impacts of colonialism and white supremacy.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
2. The California General Education Transfer Curriculum (Cal-GETC)
3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.

Learning Outcome(s):

1. Cross Culture and Diversity - Students will identify cross-cultural differences in gender and variations of gender roles within the U.S. with regard to race, ethnicity, religion, and social class.
2. Theoretical Perspectives on Gender - Students will describe and apply the major theoretical approaches to understanding gender and the social experiences of women in history and culture.

Program Requirements		**Units:** 9.0
SOC 170	Introduction to Justice Studies	3.0
Select One		3.0
SOC 115	Introduction to Women's Studies	3.0
OR		
SOC 135	Gender and Society	3.0
OR		
SOC 175	Introduction to LBGTQI Studies	3.0
HIST 130	Women in United States History	3.0

List A: Select three courses from the following two areas (9 units):		**Units:** 9.0
Area 1: Arts and Humanities		
CINE 123	Queer Cinema	3.0
ENG 280	Women and Literature	3.0
Area 2: Social Science		
AIS 165	Native Women in the Americas	3.0
COMM 105	Race, Gender and Media Effects	3.0
CS 140	Chicana History and Feminism	3.0
PSYC 130	Psychology of Gender	3.0

Total: 18.0

Social Media - Certificate of Achievement (12-17 units)

Business Administration Department

The Social Media Certificate of Achievement provides a comprehensive overview of the theory and practice of social media. Students who complete the requirements will be able to demonstrate how to create and share digital content in order to establish and grow a social media presence online. Potential careers students may enter upon completion include social media strategy, public relations, and/or online journalism. There are no prerequisite or enrollment limitations.

Learning Outcome(s):

1. Students will differentiate among social media channels and choose the best ones for marketing a business.
2. Students will create and deploy content across various social media channels.

Program Requirements		**Units:** 17.0-14.0
Elective (select one of the following two courses)		3.0
BUS 150	Advertising	3.0
OR		
COMM 104	Introduction to Public Relations	3.0-0.0
BUS 152	Social Media for Business	3.0
GCMW 115	Web Page Layout/WordPress I	2.0
JOUR 130	Multimedia Journalism	3.0
DBA 105	Multimedia Storytelling	2.0
JOUR 200	Mastering Social Media	3.0-0.0
BUS 173	Contemporary Job Search Techniques	1.0

Total: 17.0-14.0

Social Work and Human Services - A.A. Degree Major or Certificate of Achievement (18 units or more)

Behavioral Sciences Department

The Social Work and Human Services Program provides students with the academic training and hands-on experience for entry-level employment in social work and human services or to meet lower division transfer requirements for a bachelor's degree in social work. Social Work and Human Services are applied behavioral sciences that emphasize the application of behavioral science principles in a variety of cultural contexts. As a profession, social work and human services focuses on methods for helping people from many different social groups to improve the quality of their lives.

Learning Outcome(s):

1. Define and apply major Social Work and Human Services concepts, theories and research methodologies to analyze a variety of social and/or cultural issues.
2. Identify the formal regulations that govern professional ethics in Social Work and Human Services and begin to embrace the values that will contribute to positive outcomes in work settings and in building a society responsive to multicultural and global concerns.
3. Apply effective rapport, communication, and attending skills necessary for the Social Work and Human Services profession.

Program Requirements (6 Courses)   **Units:** 19.0

SWHS 100	Introduction to Social Work and Human Services	3.0
SWHS 120	Social Work and Human Services Fields of Service	3.0
PSYC C1000	Introduction to Psychology	3.0
SOC 100	Introduction to Sociology	3.0

SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0
AODS 255	Case Management	3.0

Program Electives (Select 3 Course)   **Units:** 9.0-10.0

AODS 150 / PSYC 150 / SOC 150	Introduction to Alcohol and Other Drug Studies	3.0
AODS 155 / SOC 155 / PSYC 155	The Physiology and Pharmacology of Psychoactive Drugs	3.0
AODS 160	Prevention, Intervention, and Education	3.0
AODS 250	Group Leadership and Process	3.0
AODS 260	Chemical Dependency Family Counseling	3.0
AODS 270	Co-Occurring Disorders	3.0
ANTH 105	Introduction to Cultural Anthropology	3.0
SOC 110	Social Problems	3.0
SOC 130	Introduction to Sociology of Health	3.0
PSYC 105 / SOC 105	Marriage, Family and Intimate Relationships	3.0
PSYC 110	Developmental Psychology - Child Through Adult	3.0
PSYC 145	Psychology and Sociology of Aging	3.0
PSYC 210	Physiological Psychology	4.0
PSYC 225	Psychology of Abnormal Behavior	3.0
PSYC 235	Principles of Learning and Behavior Modification	3.0

Total: 28.0-29.0

Sociology - AA-T Transfer Major (18 units or more)

Behavioral Sciences Department

The Associate in Arts in Sociology for Transfer is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in Sociology. Sociology is the study of social behavior and human groups and focuses on social relationships, how those relationships influence people's behavior and beliefs, and how societies develop and change. Students will learn the main theoretical approaches in sociology that explain society on both a micro level through the study of social interaction, and on a macro scale through the study of large social institutions. The curriculum for the Associate in Arts in Sociology for Transfer is intended to develop critical thinking skills, to explore the diversity of our social world, and to adequately prepare students for transfer to an upper division program in Sociology. The Associate in Arts in Sociology for Transfer allows students the opportunity to meet the lower division transfer requirements for a major in Sociology.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major.

Learning Outcome(s):

1. Describe the sociological imagination and apply its emphasis on the interconnections between individuals and macro-level forces to a better understanding of their own lives and the society in which they live.
2. Compare and contrast the three main theoretical paradigms in sociology and analyze social phenomena from these different perspectives.
3. Evaluate the basic principles of quantiative and qualitative scientific research methods to critically assess how knowledge is defined, generated, and interpreted.
4. Describe the process of social interaction and the role of culture and socialization in the development of the self.

Program Requirements		**Units:** 9.0-10.0
SOC 100	Introduction to Sociology	3.0
SOC 110	Social Problems	3.0
		3.0-4.0
SOC 180	Social Justice Statistics	3.0
OR		
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0

List A (Select 2 courses)		**Units:** 6.0
PSYC 105 / SOC 105	Marriage, Family and Intimate Relationships	3.0
SOC 135	Gender and Society	3.0
SOC 200 / AMS 200 / MCS 200	Race, Class, and Ethnic Groups in America	3.0

SOC 210	Research Methods for Sociology	3.0

List B (Any course not already completed from list A or one course from list B)		**Units:** 3.0
SOC 115	Introduction to Women's Studies	3.0
PSYC 125 / SOC 125	Human Sexuality	3.0
SOC 130	Introduction to Sociology of Health	3.0
SOC 145 / PSYC 145	Psychology and Sociology of Aging	3.0
SOC 165	Self and Society	3.0
SOC 170	Introduction to Justice Studies	3.0
SOC 175	Introduction to LBGTQI Studies	3.0

Total: 18.0-19.0

SolidWorks Drafting and Design - Certificate of Achievement (8-15 units)

Design and Manufacturing Technologies Department

The SolidWorks Drafting and Design Program provides students with a solid foundation for an entry level position using the most current SolidWorks drafting technology available. This program is designed for students who are planning a career in drafting, as well as for those who are already working in the industry and want to improve their skills in 3D drafting and design. This class will provide the knowledge and skill set to advance the student's professional goals.

Learning Outcome(s):

1. Use advanced modeling techniques to create mechanical parts and assemblies incorporating organic shapes using SolidWorks software.

2. Create advanced assemblies construction using joint connections between components establishing a rudimentary mechanism.
3. Use acceptable geometric dimensioning and tolerancing practices to produce drawings for documentation and manufacturing.

Program Requirements		**Units:** 9.0
MACH 117	Blueprint Reading and Geometric Dimensioning and Tolerancing (GD+T)	3.0
DT 103	SolidWorks I	3.0
DT 104	SolidWorks II	3.0

Total: 9.0

Spanish - AA-T Transfer Major (18 units or more)

World Languages Department

This degree will provide required course work for students majoring or minoring in Spanish. In addition, completing the course work will meet the foreign language competency requirements at many colleges and universities. Students may receive humanities credit on general education patterns for both the CSU and UC systems. It will also provide instruction for students seeking foreign language skills for personal development.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is also an acceptable grade for courses in the major.

Learning Outcome(s):

1. Writing – Upon successful completion of this program, students will be able to write clear detailed text on a range of subjects passing on information or giving reasons in support of or against a particular point of view. Students will be able to write letters, essays or reports highlighting the personal significance of events and experiences and compare and contrast their own culture with that of the Spanish speaking world.
2. Listening – Upon successful completion of the program, students will be able to understand the main points of standard speech and follow some complex lines of argument. Students will be able to understand the main points of radio, TV programs and film that address current affairs or topics of personal and professional interest. Students will be able to recognize the linguistic variations that exist within the Spanish speaking world.
3. Speaking – Upon successful completion of the program, students will be able to interact with a degree of fluency and spontaneity that makes interaction with native speakers possible. Students will be able to take an active part in discussions on familiar topics. Students will be able to present facts and opinions, compare and contrast cultural differences, explain a viewpoint on a topical issue and argue the advantages and disadvantages of various options.
4. Reading – Upon successful completion of the program, students will be able to comprehend written materials such as articles, reports and simple literary texts that address contemporary

issues of the Spanish speaking world. Students will be able to identify and evaluate the writers' particular attitudes and viewpoints.

Program Requirements		Units: 21.0-23.0
SPAN 101	Spanish I	5.0-0.0
SPAN 102	Spanish II	5.0-0.0
Spanish III or Spanish for Heritage Speakers I		5.0-0.0
SPAN 201	Spanish III	5.0-0.0
OR		
SPAN 211	Spanish for Heritage Speakers I	5.0-0.0
Spanish IV or Spanish for Heritage Speakers II		5.0
SPAN 202	Spanish IV	5.0-0.0
OR		
SPAN 212	Spanish for Heritage Speakers II	5.0
SPAN 235	Intermediate Conversation and Writing	3.0

Note:

Students placing out of SPAN 101, 102, 201, or 211 by departmental approval, prerequisite satisfaction, or Advanced Placement scores, shall use the following list of course substitutions in order to earn a total of 18 semester units in the major (Title 5, section 55063).

ARAB 101, ARAB 102, ARAB 201, CHIN 101, CHIN 102, CHIN 201, FREN 101, FREN 102, FREN 201, FREN 202, GERM 101, GERM 102, GERM 201, GERM 202, ITAL 101, ITAL 102, ITAL 201, JAPN 101, JAPN 102, JAPN 201, JAPN 202, HIST 121, HIST 150, HIST 151, CS 100, CS 101, CS 102,CS 155

All degree requirements must be satisfied, and no other substitutions are permitted. Students must complete SPAN 235 at Palomar College, unless otherwise approved by the department chair or designated department faculty member.

Total: 21.0-23.0

Spanish - Certificate of Achievement (18 units or more)

World Languages Department

This certificate will provide course work for students interested in Spanish for the job market and academic environment. In addition, completing the course work will meet the foreign language competency requirements at many colleges and universities. It will also provide instruction for students seeking foreign language skills for personal development.

Learning Outcome(s):

1. Writing – Upon successful completion of this program, students will be able to write clear detailed text on a range of subjects passing on information or giving reasons in support of or against a particular point of view. Students will be able to write letters, essays or reports highlighting the personal significance of events and experiences and compare and contrast their own culture with that of the Spanish speaking world.
2. Listening – Upon successful completion of the program, students will be able to understand the main points of standard speech and follow some complex lines of argument. Students will be able to understand the main points of radio, TV programs and film that address current affairs or topics of personal and professional interest. Students will be able to recognize the linguistic variations that exist within the Spanish speaking world.
3. Speaking – Upon successful completion of the program, students will be able to interact with a degree of fluency and spontaneity that makes interaction with native speakers possible. Students will be able to take an active part in discussions on familiar topics. Students will be able to present facts and opinions, compare and contrast cultural differences, explain a viewpoint on a topical issue and argue the advantages and disadvantages of various options.
4. Reading – Upon successful completion of the program, students will be able to comprehend written materials such as articles,

reports and simple literary texts that address contemporary issues of the Spanish speaking world. Students will be able to identify and evaluate the writers' particular attitudes and viewpoints.

Program Requirements		Units: 23.0-24.0
Spanish I		5.0-6.0
SPAN 101	Spanish I	5.0
OR		
Spanish IA and IB		6.0
SPAN 101A	Spanish IA	3.0
AND		
SPAN 101B	Spanish IB	3.0
SPAN 102	Spanish II	5.0
Spanish III or Spanish for Heritage Speakers I		5.0
SPAN 201	Spanish III	5.0
OR		
SPAN 211	Spanish for Heritage Speakers I	5.0
Spanish IV or Spanish for Heritage Speakers II		5.0
SPAN 202	Spanish IV	5.0
OR		
SPAN 212	Spanish for Heritage Speakers II	5.0
SPAN 235	Intermediate Conversation and Writing	3.0

Total: 23.0-24.0

Speech Communication - A.A. Degree Major (18 units or more)

Speech, Forensics, ASL Department

Prepares the student for employment in programs where advanced speaking skills are necessary. Transfer students should consult the four-year college or university catalog for specific requirements or see a Palomar College counselor .

Program Requirements		Units: 18.0
COMM C1000	Introduction to Public Speaking	3.0
SPCH 105	Beginning Argumentation and Critical Thinking	3.0

SPCH 115	Interpersonal Communication	3.0
SPCH 120	Human Communication	3.0
TA 125 / SPCH 125	Beginning Oral Interpretation	3.0

SPCH 131	Intercultural Communication	3.0

Total: 18.0

Studio Arts - AA-T Transfer Major (18 units or more)

Art Department

The Associate in Arts in Studio Arts for Transfer is designed to prepare students for a seamless transfer to complete a baccalaureate degree in Studio Arts and fulfill lower division transfer preparation in Studio Arts for the CSU system. Students will gain the fundamental skills, as well as the academic foundation of knowledge in Studio Arts through study of theory, the engagement in practice and the investigation of media.

Students are encouraged to speak to Palomar College counselors and Art Department faculty, as well as consult Assist.org and university catalogs, for more transfer information.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major.

Learning Outcome(s):

1. Compose or design works of art that utilize a combination of technique, materials, visual ideas, and experiences.
2. Critique artworks using correct terminology related to concepts, materials, and techniques.
3. Evaluate form, image, and artistic creation of visual artworks from different traditions, cultures, and civilizations.

Required Core   **Units:** 12.0

ART 102	Foundations of Drawing	3.0
ART 104	Design and Composition	3.0
ART 105	Three-Dimensional Form and Design	3.0
ART 166	History of Art II - Survey of Western Art	3.0

List A: Select one (3 units)   **Units:** 3.0

ART 163	Arts of Asia	3.0
ART 164	Arts of Africa, Oceania and the Americas	3.0

ART 165	History of Art I - Survey of Western Art	3.0

List B: Select one course from three different areas (9 units)   **Units:** 9.0

Drawing		3.0
ART 120	Foundations of Life Drawing	3.0
OR		
ART 103	Intermediate Drawing	3.0
Painting		3.0
ART 220	Introduction to Painting	3.0
Ceramics		3.0
ART 135	Ceramics I	3.0
Sculpture		3.0
ART 260	Sculpture I	3.0
Digital Art		3.0
ARTD 100	Graphic Design I	3.0
Photography		3.0
PHOT 100	Black and White Film Photography	3.0
Color		3.0
ART 200	Color Theory	3.0
Applied Design		3.0
ART 150	Jewelry and Metalsmithing Design I	3.0
Studio Art Elective		3.0
ART 145	Design in Mixed Media	3.0
Second Semester Studio		3.0
ART 121	Intermediate Life Drawing	3.0
OR		
ART 151	Jewelry and Metalsmithing Design II	3.0
OR		
ARTD 200	Graphic Design II - Lettering and Layout	3.0
OR		
ART 221	Painting	3.0
OR		
ART 261	Sculpture II	3.0

Total: 24.0

Table and Chair Manufacturing - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

Table and chair furniture is unique in that it is highly interactive with people who use them. Design and joinery must consider comfort, esthetics and structure. This program will prepare students to make a living manufacturing table and chair furniture. The study of historic period pieces will enable students to apply traditional methods of construction to modern and contemporary designs. The finest furniture in the world is handmade and yet production methods can/will be applied to increase efficiency and profit.

Learning Outcome(s):

1. Student will be able to write a business plan for a furniture related business.
2. Students will be able to competently use hand tools in basic and complex operations.
3. Students will be able to create own line of table and chair furniture and create production methods to be able to produce high quality furniture in a time efficient manner.
4. Students will be able to make judgements as to when simple and traditional methods/processes are appropriate to use.
5. Students will be able to work with client to design and construct custom table and chair furniture.
6. Students will be able to work with client to design and construct period table and chair furniture.
7. Students will be prepared to set up a shop to run their own bussiness.

Program Requirements		**Units:** 22.0
CFT 100	Fundamentals of Woodworking	4.0
CFT 108	Business Woodworking	2.0
Furniture Design (select one of the following)		2.0
CFT 118	Furniture Design Development	2.0
OR		
CFT 153	Studio Furniture Design I	2.0

CFT 149	Hand Joinery I	2.0
CFT 155	Classic American Chair Designs	2.0
CFT 159A	Chair and Tables/Prototype Construction I	2.0
CFT 159B	Chair and Tables/Prototype Construction II	2.0
CFT 160A	Chairs and Tables/Production Manufacturing I	2.0
CFT 160B	Chairs and Tables/Production Manufacturing II	2.0
CFT 195	Finishing Technology/Touch-Up and Repair	2.0

Electives (Select 2 units)		**Units:** 2.0
CFT 142	The Art and Craft of Planemaking	2.0
CFT 156	Advanced Classic American Chair Designs	2.0
CFT 170	Workbench Design and Production	2.0
CFT 180	Wood Bending and Lamination/Wood Technology	2.0
CFT 185	Machine Tool Set-Up and Maintenance	2.0
CFT 198	Advanced Wood Finishing	2.0

Total: 24.0

Theatre Arts - A.A. Degree Major (18 units or more)

Performing Arts Department

The Palomar Theatre Program cultivates the potential of theatre to make an impact on the lives of practitioners, audiences, and communities. Through our technique classes, academic offerings and season of productions the program emphasizes the power of theatre to transform individuals and society through imagination, empathy, analysis, and action. The program empowers students to follow the discipline of craft while taking risks and developing their own artistic sensibility. Critically-acclaimed productions range from the classical to the experimental, often serving as a focal point for campus-wide dialogue on social issues. The program also emphasizes collaboration with the other disciplines in the Performing Arts Department and colleagues in the Art Department.

Learning Outcome(s):

1. Articulate the relationship between a current theatrical production and its social/cultural/historical context
2. Contribute skills and techniques to the successful realization of a theatrical production

Program Requirements:		**Units:** 13.0
TA 100	Introduction to the Theatre	3.0
TA 108	Stagecraft and Scene Design for Theatre and Television	3.0
TA 115	Acting I	3.0
TA 150	Dramatic Literature and Script Analysis	3.0
TA 192A	Technical Theatre in Production 1	1.0

Complete a total of 9 units from Technical Theatre and/or Performance Emphasis		**Units:** 9.0
Technical Theatre Emphasis		
TA 106	Fundamentals of Costume Design	3.0
TA 107	Lighting for Stage and Television	3.0
TA 109	Introduction to Stage Makeup	3.0
TA 192B	Technical Theatre in Production 2	1.0
TA 192C	Technical Theatre in Production 3	1.0
TA 192D	Technical Theatre in Production 4	1.0

Performance Emphasis		
TA 113A	Improvisational Theatre I	3.0
TA 116	Acting II	3.0
TA 119	Voice and Speech	3.0
MUS 173 / TA 173 / DNCE 173	Musical Theatre Scenes I	1.0
TA 184	Creative Theatre Ensemble	1.0
TA 191A	Rehearsal and Performance I	1.0
TA 191B	Rehearsal and Performance II	1.0
TA 191C	Rehearsal and Performance III	1.0
TA 191D	Rehearsal and Performance IV	1.0
TA 215	Acting III	3.0
TA 216	Acting IV	3.0

Total: 22.0

Theatre Arts - AA-T Transfer Major (18 units or more)

Performing Arts Department

The Associate in Arts in Theatre Arts for Transfer prepares students to move into curriculum at a four-year institution leading to a baccalaureate degree in Theatre Arts.   Careers in this field include teaching, design, technical theatre, theatre management,

professional performance, stage direction, and stage management among others. Completion of the Associate in Arts in Theatre Arts for Transfer degree provides guaranteed admission with junior status to the CSU system along with priority admission to CSU, San Marcos

in the Visual and Performing Arts major. Upon completion, students will understand and be able to demonstrate the theories and techniques of acting; the technical production processes for the theatre arts, demonstrate knowledge of the historical and cultural dimensions of theatre, and understand the interaction between script, actor, and audience and the areas of scenery, lighting, sound, and costume.

The following Associate Degree for Transfer completion requirements must be met:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

2. The California General Education Transfer Curriculum (Cal-GETC)

3. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

4. Obtainment of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major.

Learning Outcome(s):

1. The student will articulate the relationship between a current theatrical production and it's social/cultural/historical context
2. The student will demonstrate the ability to contribute skills and techniques to the successful realization of a theatrical production

Program Requirements   **Units:** 9.0-10.0

TA 100	Introduction to the Theatre	3.0
TA 115	Acting I	3.0
		3.0-4.0
Technical Theatre Practicum		3.0
TA 192A	Technical Theatre in Production 1	1.0
AND		

TA 192B	Technical Theatre in Production 2	1.0
AND		
TA 192C	Technical Theatre in Production 3	1.0
OR		
Rehearsal and Performance		4.0
TA 191A	Rehearsal and Performance I	2.0
AND		
TA 191B	Rehearsal and Performance II	2.0

Electives (Select 9 units excluding any courses taken above)   **Units:** 9.0

TA 106	Fundamentals of Costume Design	3.0
TA 107	Lighting for Stage and Television	3.0
TA 108	Stagecraft and Scene Design for Theatre and Television	3.0
TA 109	Introduction to Stage Makeup	3.0
TA 116	Acting II	3.0
TA 150	Dramatic Literature and Script Analysis	3.0
A combination of three units from the Rehearsal and Performance and/or Technical Theatre Practicum Group		3.0
Rehearsal and Performance		
TA 191A	Rehearsal and Performance I	2.0
TA 191B	Rehearsal and Performance II	2.0
TA 191C	Rehearsal and Performance III	1.0
TA 191D	Rehearsal and Performance IV	1.0
OR		
Technical Theatre Practicum		
TA 192A	Technical Theatre in Production 1	1.0
TA 192B	Technical Theatre in Production 2	1.0
TA 192C	Technical Theatre in Production 3	1.0
TA 192D	Technical Theatre in Production 4	1.0

Total: 18.0-19.0

Three-Dimensional Arts: Ceramics - A.A. Degree Major (18 units or more)

Art Department

Programs are designed to enable the student to acquire skills in producing fine art for gallery and museum exhibition and commissions, enter into the commercial area, and serve as a preparation for transfer to a four year college or university. Transfer students should consult the four year college or university catalog for specific requirements or see a Palomar College counselor.

Three dimensional arts majors may select an emphasis in ceramics, crafts, glass, jewelry and metalsmithing, or sculpture, within the program requirements.

Learning Outcome(s):

1. Student will demonstrate competency in the use of Art and Method specific language during the presentation, contextualization, and defense of their original work of art.
2. Student will demonstrate the ability to research, document, present, and relate to aesthetic and/or contextual source material and influences through the presentation of sketchbooks, journals or digital presentations.
3. Student will illustrate an understanding of the personal, conceptual, cultural or historical context of their original work of art.

4. Student will illustrate the ability to manifest the proper relationship of materials, process and technique as they relate to their original work of art.

Program Requirements   **Units:** 30.0

ART 101	Methods and Materials	3.0
ART 104	Design and Composition	3.0
ART 105	Three-Dimensional Form and Design	3.0
ART 135	Ceramics I	3.0
ART 136	Ceramics II	3.0
ART 165	History of Art I - Survey of Western Art	3.0
ART 166	History of Art II - Survey of Western Art	3.0
ART 250	Ceramics III	3.0
ART 265	Ceramic Sculpture I	3.0
Ceramics Elective (select one of the following two courses)		3.0
ART 138	Ceramic Surface Decoration	3.0
OR		
ART 266	Ceramic Sculpture II	3.0

Final Art Portfolio Review

Electives (Select 6 units)   **Units:** 6.0

ART 140	Foundry Techniques in Sculpture I	3.0
ART 156	Glass Casting I	3.0
ART 160	Glassblowing/Glassforming I	3.0
ART 255	Foundry Technique in Sculpture II	3.0

ART 260	Sculpture I	3.0
ART 261	Sculpture II	3.0
ART 278	Glass Casting II	3.0

Total: 36.0

Three-Dimensional Arts: Crafts - A.A. Degree Major (18 units or more)

Art Department

Programs are designed to enable the student to acquire skills in producing marketable fine art for gallery exhibition and commissions, enter into the commercial area, and serve as a preparation for transfer to a four?year college or university. Transfer students should consult the four-year college or university catalog for specific requirements or see a Palomar Collegecounselor.

Three-dimensional arts majors may select an emphasis in ceramics, crafts, glass, jewelry and metalsmithing, or sculpture, within the program requirements.

Learning Outcome(s):

1. Demonstrate proficiency in utilizing various materials such as wood; metal; fibers; vitreous enamels glass etc. and techniques which are applicable to said materials facilitating the exploration in creating aesthetic possibilities of three dimensional crafts oriented objects of art.

Program Requirements   **Units:** 33.0

ART 101	Methods and Materials	3.0
ART 102	Foundations of Drawing	3.0
ART 104	Design and Composition	3.0

ART 105	Three-Dimensional Form and Design	3.0
ART 135	Ceramics I	3.0
ART 145	Design in Mixed Media	3.0
ART 147	Design in Enamels	3.0
ART 150	Jewelry and Metalsmithing Design I	3.0
ART 165	History of Art I - Survey of Western Art	3.0
ART 166	History of Art II - Survey of Western Art	3.0
ART 260	Sculpture I	3.0
Final Art Portfolio Review		

Electives (Select 6 units)   **Units:** 6.0

ART 136	Ceramics II	3.0
ART 140	Foundry Techniques in Sculpture I	3.0
ART 151	Jewelry and Metalsmithing Design II	3.0
ART 155	Stained Glass I	3.0
ART 261	Sculpture II	3.0
ART 270	Jewelry and Metalsmithing Design III	3.0
ART 275	Stained Glass II	3.0
PHOT 100	Black and White Film Photography	3.0

Total: 39.0

Three-Dimensional Arts: Glass - A.A. Degree Major (18 units or more)

Art Department

The Three-Dimensional Arts - Glass program is designed to prepare the student through development of glassworking skills and knowledge of studio and sculptural glass methodologies for transfer to a four-year college or university. The student will also gain professional development skills to produce and promote their artwork for the commercial market. Transfer students should consult the four-year college or university catalog for specific requirements or see a Palomar College counselor.

Three-Dimensional Arts majors may select an emphasis in ceramics, crafts, glass, jewelry and metalsmithing, or sculpture, within the program requirements.

Learning Outcome(s):

1. Student will demonstrate the ability to research, document, present, and relate to aesthetic and/or contextual source material and influences through the presentation of sketchbooks, journals or digital presentations.
2. Student will illustrate an understanding of the personal, conceptual, cultural or historical context of their original work of art.
3. Student will demonstrate creative and technical proficiency in the design and execution of blown and sculptural glass as shown in representation and defense of portfolio.

Program Requirements   **Units:** 21.0

ART 135	Ceramics I	3.0
ART 101	Methods and Materials	3.0
ART 105	Three-Dimensional Form and Design	3.0
ART 156	Glass Casting I	3.0
ART 160	Glassblowing/Glassforming I	3.0
ART 280	Glassblowing/Glassforming II	3.0
ART 290	Glassblowing/Glassforming III	3.0

Electives (Select one)   **Units:** 3.0

ART 150	Jewelry and Metalsmithing Design I	3.0
ART 101	Methods and Materials	3.0
ART 102	Foundations of Drawing	3.0
ART 135	Ceramics I	3.0
ART 136	Ceramics II	3.0
ART 140	Foundry Techniques in Sculpture I	3.0
ART 155	Stained Glass I	3.0
ART 255	Foundry Technique in Sculpture II	3.0
ART 260	Sculpture I	3.0
ART 261	Sculpture II	3.0
ART 275	Stained Glass II	3.0
ART 278	Glass Casting II	3.0

Total: 24.0

Three-Dimensional Arts - Jewelry and Metalsmithing - A.A. Degree Major (18 units or more)

Art Department

Programs are designed to enable the student to acquire skills in producing marketable fine art for gallery exhibition and commissions, enter into the commercial area, and serve as a preparation for transfer to a four-year college or university. Transfer students should consult the four-year college or university catalog for specific requirements or see a Palomar College counselor.

Three-dimensional arts majors may select an emphasis in ceramics, crafts, glass, jewelry and metalsmithing, or sculpture, within the program requirements.

Learning Outcome(s):

1. Students will demonstrate proficiency in utilizing vitreous enamels and a variety of metals such as silver, copper, brass, etc. and techniques which are applicable to said materials facilitating the exploration in creating aesthetic possibilities of three dimensional jewelry/metalsmithing oriented objects of art. s
2. Students will demonstrate the ability to critique their own work, as well as the work of other students; and defend their creative choices verbally.

Program Requirements		Units: 18.0
ART 101	Methods and Materials	3.0
ART 105	Three-Dimensional Form and Design	3.0
ART 147	Design in Enamels	3.0
ART 150	Jewelry and Metalsmithing Design I	3.0
ART 151	Jewelry and Metalsmithing Design II	3.0
ART 270	Jewelry and Metalsmithing Design III	3.0

Electives (Select 6 units)		Units: 6.0-12.0
ART 145	Design in Mixed Media	3.0
ART 135	Ceramics I	3.0
ART 140	Foundry Techniques in Sculpture I	3.0
ART 260	Sculpture I	3.0

Total: 24.0-30.0

Three-Dimensional Arts: Sculpture - A.A. Degree Major (18 units or more)

Art Department

Programs are designed to enable the student to acquire skills in producing marketable fine art for gallery exhibition and commissions, enter into the commercial area, and serve as a preparation for transfer to a four-year college or university. Transfer students should consult the four-year college or university catalog for specific requirements or see a Palomar Collegecounselor.

Three-dimensional arts majors may select an emphasis in ceramics, crafts, glass, jewelry and metalsmithing, or sculpture, within the program requirements.

Learning Outcome(s):

1. Student will demonstrate competency in the use of Art and Method specific language during the presentation, contextualization, and defense of their original work of art.
2. Student will demonstrate the ability to research, document, present, and relate to aesthetic and/or contextual source material and influences through the presentation of sketchbooks, journals or digital presentations.
3. Student will illustrate an understanding of the personal, conceptual, cultural or historical context of their original work of art.
4. Student will illustrate the ability to manifest the proper relationship of materials, process and technique as they relate to their original work of art.

Program Requirements		Units: 36.0
ART 101	Methods and Materials	3.0
ART 102	Foundations of Drawing	3.0
ART 104	Design and Composition	3.0
ART 105	Three-Dimensional Form and Design	3.0
ART 135	Ceramics I	3.0
ART 140	Foundry Techniques in Sculpture I	3.0
ART 165	History of Art I - Survey of Western Art	3.0
ART 166	History of Art II - Survey of Western Art	3.0
ART 260	Sculpture I	3.0
ART 261	Sculpture II	3.0
ART 265	Ceramic Sculpture I	3.0
ART 266	Ceramic Sculpture II	3.0
Final Art Portfolio Review		

Electives (Select 6 units)		Units: 6.0
ART 136	Ceramics II	3.0
ART 145	Design in Mixed Media	3.0
ART 150	Jewelry and Metalsmithing Design I	3.0
ART 160	Glassblowing/Glassforming I	3.0
ART 205	Indirect Metal Forming	3.0
ART 255	Foundry Technique in Sculpture II	3.0

Total: 42.0

University Studies: Elementary Education Preparation - A.A. Degree Major (18 units or more)

Counseling Department

This degree helps facilitate transfer to CSU, UC, and independent college and university teacher preparation programs such as Liberal Studies Elementary Subject-Matter, Liberal Studies Bilingual Multiple Subject Teaching Credential, Liberal Studies Elementary Education, Multiple Subject Teaching Credential, Liberal Studies Mathematics and Science, Integrated Teacher Education Program Specialist: Mild/Moderate and Moderate and Moderate/Severe Disability Options, Teaching and Learning, and Education, Society and Human Development.

University Studies general education requires full completion of The California General Education Transfer Curriculum (Cal-GETC).

Students should see a Counselor to carefully plan out their teacher preparation pathway according to their transfer goal.

Learning Outcome(s):

1. Interpret primary and secondary sources and to compose an argument which uses them, as appropriate, for support
2. Discuss significant works of literature
3. Apply the scientific method
4. Compare and contrast human societies

General Education

The California General Education Transfer Curriculum (Cal-GETC)*

English Composition and Communication — Units: 7.0

		4.0
ENGL C1000	Academic Reading and Writing	4.0
OR		
ENGL C1000E	Academic Reading and Writing	4.0
OR		
ESL 110	College Composition for Non-Native Speakers	4.0
COMM C1000	Introduction to Public Speaking	3.0

Critical Thinking — Units: 3.0-4.0

Choose one:		3.0-4.0
ENGL C1001	Critical Thinking and Writing	4.0
OR		
ENG 203	Critical Thinking and Composition Through Literature	4.0
OR		
PHIL 113	Reasoning About Philosophical Issues	3.0
OR		
PHIL 116	Introduction to Logic	3.0
OR		
PHIL 200	Critical Thinking	3.0
OR		
READ 120	Critical Reading	3.0
OR		
SPCH 105	Beginning Argumentation and Critical Thinking	3.0

Mathematics for Teachers — Units: 6.0

MATH 105	Concepts of Elementary Mathematics I	3.0
MATH 106	Concepts of Elementary Mathematics II	3.0

Biological, Earth, and Physical Science — Units: 10.0

PHSC 101	Principles of Physical Science	3.0
		4.0
BIOL 100	Introductory Biology: General Biology	4.0
OR		
		4.0
BIOL 101	General Biology (Lecture)	3.0
AND		
BIOL 101L	Introductory Biology: General Biology (Laboratory)	1.0
		3.0
GEOG 100	Earth's Dynamic Environment: Introduction to Physical Geography*	3.0

U.S. History and Government — Units: 6.0

Choose one group: AIS 101+AIS 102; AS 101+AS102; CS 101+CS102; HIST 101+POSC 102		6.0
		6.0
AS 101	African-American History I	3.0
AND		
AS 102	African-American History II	3.0
OR		6.0
		6.0
AIS 101	History of American Indian Nations from Creation through the Present	3.0
AND		
AIS 102	The American Indian and the U.S. Political System	3.0
OR		6.0
		6.0
CS 101	United States History from a Chicano Perspective I	3.0
AND		
CS 102	United States History from a Chicano Perspective II	3.0
OR		7.0
		7.0
HIST 101	History of the United States Through Reconstruction	3.0
AND		
POLS C1000	American Government and Politics	4.0

World History and Geography — Units: 6.0

		3.0
GEOG 103	World Regional Geography	3.0
OR		
GEOG 105	People and the Environment: Introduction to Human Geography	3.0
HIST 107	World History To 1650	3.0

Human Development — Units: 3.0

CHDV 100	Child Growth and Development	3.0

Literature and Linguistics — Units: 6.0

ENG 150	Introduction to Linguistics	3.0
ENG 205	Introduction to Literature	3.0

Physical Education — Units: 3.0

KINE 102	Physical Education in Elementary Schools, Movement and Theory	3.0

Visual and Performing Art (Choose one) — **Units:** 3.0

ART 102	Foundations of Drawing	3.0
ART 104	Design and Composition	3.0
ART 105	Three-Dimensional Form and Design	3.0
DNCE 100	Survey of Dance	3.0
DNCE 145	Choreography I	3.0
MUS 103	Fundamentals of Music	3.0
MUS 105	Music Theory I	3.0
TA 115	Acting I	3.0
TA 160	Beginning Stage Direction	3.0

Electives. Choose two courses (a minimum of 6.0 units) from the following list. — **Units:** 6.0

AIS 100	Introduction to American Indian Studies	3.0
AIS 107A	Elementary Luiseno IA	3.0
AIS 125	American Indians Today	3.0
AIS 166A	Elementary Cahuilla IA	3.0
ARAB 101	Arabic I	5.0
ARAB 102	Arabic II	5.0
ARAB 201	Arabic III	5.0
ART 100	Introduction to Art	3.0
ART 135	Ceramics I	3.0
ART 220	Introduction to Painting	3.0
ART 260	Sculpture I	3.0
ASL 100	American Sign Language I	4.0
ASL 101	American Sign Language II	4.0
ASL 205	American Sign Language III	4.0
ASL 206	American Sign Language IV	4.0
CHDV 104	Guidance for Young Children	3.0
CHDV 110	Introduction to Children with Disabilities	3.0
CHDV 115	Child, Family, and Community	3.0
CHDV 120	Health, Safety, and Nutrition	3.0
CHDV 172	Teaching in a Diverse Society	3.0
CHDV 182	ECE Curriculum Experiences: Art, Music and Movement	3.0
CHIN 101	Chinese I	5.0
CHIN 102	Chinese II	5.0
CHIN 201	Chinese III	5.0
CS 100	Introduction to Chicano Studies	3.0
CS 140	Chicana History and Feminism	3.0
CSIT 105	Computer Concepts and Applications	3.0

DNCE 101	Survey of World Dance	3.0
ENG 210	Survey of British Literature I	3.0
ENG 211	Survey of British Literature II	3.0
ENG 220	Survey of World Literature I	3.0
ENG 221	Survey of World Literature II	3.0
ENG 225	Literature of the United States I	3.0
ENG 226	Literature of the United States II	3.0
FREN 101	French I	5.0
FREN 102	French II	5.0
FREN 201	French III	5.0
FREN 202	French IV	5.0
GERM 101	German I	5.0
GERM 102	German II	5.0
GERM 201	German III	5.0
GERM 202	German IV	5.0
HIST 102	History of the United States Since Reconstruction	3.0
ITAL 101	Italian I	5.0
ITAL 102	Italian II	5.0
ITAL 201	Italian III	5.0
ITAL 202	Italian IV	5.0
JAPN 101	Japanese I	5.0
JAPN 102	Japanese II	5.0
JAPN 201	Japanese III	5.0
JAPN 202	Japanese IV	5.0
MUS 100	Music Appreciation	3.0
PHIL 111	Introduction to Philosophy	3.0
PHIL 121	Introduction to Ethics	3.0
PHIL 122	Social and Political Philosophy	3.0
PHIL 140	History of Ancient Philosophy	3.0
PHIL 141	History of Modern Philosophy	3.0
PSYC C1000	Introduction to Psychology	3.0
PSYC 110	Developmental Psychology - Child Through Adult	3.0
RS 101	World Religions	3.0
RS 110	Religion in America	3.0
SPAN 101	Spanish I	5.0
SPAN 102	Spanish II	5.0
SPAN 201	Spanish III	5.0
SPAN 202	Spanish IV	5.0
SPAN 211	Spanish for Heritage Speakers I	5.0
SPAN 212	Spanish for Heritage Speakers II	5.0
TA 100	Introduction to the Theatre	3.0

Total: 59.0-60.0

University Studies: Emphasis in Arts and Humanities - A.A. Degree Major (18 units or more)

General Education Department

The Associate in Arts in University Studies Humanities and the Arts emphasizes the analysis of the diverse human experience portrayed in philosophical, historical, and literacy contexts and forms of art. This degree helps facilitate transfer to the California State University (CSU), University of California (UC), and independent colleges and universities in majors such as classics, comparative literature, humanities, ethnic studies, media and cultural studies, linguistics, literary studies, religious Studies, visual and performing Arts, and world languages.

University Studies general education requires full completion of The California General Education Transfer Curriculum (Cal-GETC).

Students should consult with a Palomar College Academic Counselor as this degree accommodates a wide variety of majors and admission requirements and major preparation may vary.

Learning Outcome(s):

1. Analyze and assess human experiences from around the world portrayed in philosophical, historical and literary contexts
2. Compare and contrast diverse cultural expressions and how they contribute to an equitable and inclusive society.
3. Describe and appraise the human experiences symbolized in art forms from around the world

General Education:

The California General Education Transfer Curriculum (Cal-GETC)

Arts: Choose one course: **Units:** 3.0

AIS 104	The Music of Native America	3.0
AIS 105	History of Native American Arts	3.0
AIS 135	California Indian Arts	3.0
ARCH 120	Architectural History	3.0
ARCH 121	Multicultural Architectural History	3.0
ARCH 122	History of Architectural Theory	3.0
ART 100	Introduction to Art	3.0
ART 102	Foundations of Drawing	3.0
ART 104	Design and Composition	3.0
ART 105	Three-Dimensional Form and Design	3.0
ART 163	Arts of Asia	3.0
ART 164	Arts of Africa, Oceania and the Americas	3.0
ART 165	History of Art I - Survey of Western Art	3.0
ART 166	History of Art II - Survey of Western Art	3.0
ART 169	Survey of Modern Art	3.0
CINE 100	Art of the Cinema	3.0
CINE 102	History of Film to 1945	3.0
CINE 103	History of Film 1945 - Present	3.0
CINE 110	Documentary Film	3.0
CINE 120	Film Criticism	3.0
CINE 122	Identity in American Film	3.0
DBA 100	Introduction to Radio and TV	3.0
DNCE 100	Survey of Dance	3.0
DNCE 101	Survey of World Dance	3.0
DNCE 102	The Hollywood Musical: Dance on Film	3.0
DNCE 105	Introduction to Dance History	3.0
FASH 130	History of Fashion/Costume	3.0
GC 115	Graphics and Media: A Multicultural Perspective	3.0
MUS 100	Music Appreciation	3.0
MUS 101	Survey of 20th Century Music	3.0
MUS 102	Introduction to Jazz	3.0
MUS 103	Fundamentals of Music	3.0
MUS 169	History of Rock Music	3.0
MUS 171	World Music	3.0
PHOT 125	History and Criticism of Photography	3.0
TA 100	Introduction to the Theatre	3.0
TA 150	Dramatic Literature and Script Analysis	3.0

Humanities: Choose one course: **Units:** 3.0-5.0

AIS 100	Introduction to American Indian Studies	3.0
AIS 107A	Elementary Luiseno IA	3.0
AIS 107B	Elementary Luiseno IB	3.0
AIS 108A	Elementary Luiseno IIA	3.0
AIS 108B	Elementary Luiseno IIB	3.0
AIS 145	American Indian Literature	3.0
AIS 150	American Indian Philosophy and Religion	3.0
AIS 166A	Elementary Cahuilla IA	3.0
AIS 166B	Elementary Cahuilla IB	3.0
AIS 167A	Elementary Cahuilla IIA	3.0
AIS 167B	Elementary Cahuilla IIB	3.0
AIS 180B	Uto-Aztecan Languages of San Diego County IB	3.0
AIS 207A	Luiseno IIIA	3.0
AIS 207B	Luiseno IIIB	3.0
AIS 266A	Cahuilla IIIA	3.0
AIS 266B	Cahuilla IIIB	3.0
AMS 100	American Culture and Identity	3.0

AMS 105	American West: Images and Identities	3.0
ANTH 135	Magic, Witchcraft, and Religion	3.0
CS 155 / ANTH 155	Ancient Civilizations of Meso-America	3.0
ARAB 101	Arabic I	5.0
ARAB 102	Arabic II	5.0
ARAB 201	Arabic III	5.0
ARCH 122	History of Architectural Theory	3.0
ASL 100	American Sign Language I	4.0
ASL 101	American Sign Language II	4.0
ASL 110	Awareness of Deaf Culture	3.0
ASL 205	American Sign Language III	4.0
ASL 206	American Sign Language IV	4.0
CHIN 101	Chinese I	5.0
CHIN 102	Chinese II	5.0
CHIN 201	Chinese III	5.0
CINE 100	Art of the Cinema	3.0
CINE 102	History of Film to 1945	3.0
CINE 103	History of Film 1945 - Present	3.0
CINE 106	Horror Film	3.0
CINE 110	Documentary Film	3.0
CINE 122	Identity in American Film	3.0
CINE 123	Queer Cinema	3.0
CS 100	Introduction to Chicano Studies	3.0
CS 140	Chicana History and Feminism	3.0
CS 155 / ANTH 155	Ancient Civilizations of Meso-America	3.0
ENG 205	Introduction to Literature	3.0
ENG 210	Survey of British Literature I	3.0
ENG 211	Survey of British Literature II	3.0
ENG 220	Survey of World Literature I	3.0
ENG 221	Survey of World Literature II	3.0
ENG 225	Literature of the United States I	3.0
ENG 226	Literature of the United States II	3.0
ENG 230	Introduction to the American Novel	3.0
ENG 250	Introduction to Shakespeare	3.0
ENG 255	Literature and Ideas	3.0
ENG 260	Literature through Film	3.0
ENG 270	Popular Literature	3.0
ENG 280	Women and Literature	3.0
ENG 290	Comic Books as Literature	3.0
ESL 106	Multicultural Humanities	6.0
FREN 101	French I	5.0
FREN 102	French II	5.0
FREN 201	French III	5.0
FREN 202	French IV	5.0
GERM 101	German I	5.0
GERM 102	German II	5.0
GERM 201	German III	5.0
GERM 202	German IV	5.0
GERM 225	German Reading and Conversation	3.0
HIST 101	History of the United States Through Reconstruction	3.0
HIST 102	History of the United States Since Reconstruction	3.0
HIST 105	History of Europe Through the Reformation	3.0
HIST 106	History of Europe Since the Reformation	3.0
HIST 107	World History To 1650	3.0
HIST 108	World History Since 1650	3.0
HIST 121	History of California	3.0
HIST 130	Women in United States History	3.0
HIST 140	History of the Americas Through 1800	3.0

HIST 141	History of the Americas Since 1800	3.0
HIST 150	History of Latin America to 1824	3.0
HIST 151	History of Latin America from Independence to the Present	3.0
HIST 160	History of the Middle East from 600 to the Present	3.0
HUM 100	Introduction to Humanities I	3.0
HUM 101	Introduction to Humanities II	3.0
ITAL 101	Italian I	5.0
ITAL 102	Italian II	5.0
ITAL 201	Italian III	5.0
ITAL 202	Italian IV	5.0
ITAL 225	Italian Reading and Conversation	3.0
JAPN 101	Japanese I	5.0
JAPN 102	Japanese II	5.0
JAPN 130	Introduction of Japanese Culture and Literature	3.0
JAPN 201	Japanese III	5.0
JAPN 202	Japanese IV	5.0
PHIL 111	Introduction to Philosophy	3.0
PHIL 114	Asian Philosophies	3.0
PHIL 121	Introduction to Ethics	3.0
PHIL 122	Social and Political Philosophy	3.0
PHIL 125	Philosophy of Human Nature	3.0

PHIL 126	Philosophy of Religion	3.0
PHIL 140	History of Ancient Philosophy	3.0
PHIL 141	History of Modern Philosophy	3.0
PHIL 250	Philosophy in Literature	3.0
RS 101	World Religions	3.0
RS 105	Ritual/Symbol/Myth: Introduction to Religion	3.0
RS 108	History of Christianity	3.0
RS 110	Religion in America	3.0
SPAN 101	Spanish I	5.0
SPAN 101A	Spanish IA	3.0
SPAN 101B	Spanish IB	3.0
SPAN 102	Spanish II	5.0
SPAN 201	Spanish III	5.0
SPAN 202	Spanish IV	5.0
SPAN 211	Spanish for Heritage Speakers I	5.0
SPAN 212	Spanish for Heritage Speakers II	5.0
SPAN 235	Intermediate Conversation and Writing	3.0

Electives **Units:** 12.0

| Choose 12 units from any courses not already completed from those listed in the Arts or Humanities above. | 12.0 |

Total: 18.0-20.0

University Studies: Emphasis in Health and Fitness - A.S. Degree Major (18 units or more)

Counseling Department

The Associate in Science in University Studies Health and Fitness emphasizes the relationship of the human body and well-being supported by interdisciplinary subjects in the sciences, health and nutrition, social and behavioral sciences, and quantitative reasoning. This degree is designed to help facilitate transfer to the CSU, UC, and independent colleges and universities in majors such as Allied Health, Family and Consumer Sciences, Kinesiology, Nursing, Nutrition, Physical Education, Pre Physical Therapy, Public Health, Radiology, and Respiratory Therapy.

University Studies general education requires full completion of The California General Education Transfer Curriculum (Cal-GETC).

Students should consult with a Palomar College Academic Counselor as this degree accommodates a wide variety of majors and admission requirements and major preparation may vary.

Learning Outcome(s):

1. Examine the relationship of health and fitness concepts within interdisciplinary studies
2. Describe the role of multiple organ systems in performing body functions

General Education **Units:**

The California General Education Transfer Curriculum (Cal-GETC)[*]

Anatomy and Physiology Requirement **Units:** 8.0

| BIOL 210 | Anatomy | 4.0 |
| BIOL 211 | Physiology | 4.0 |

Major electives. Choose a minimum of 10 units from the following list. **Units:** 10.0

| | | 4.0 |

BIOL 100 OR	Introductory Biology: General Biology	4.0
		4.0
BIOL 101 AND	General Biology (Lecture)	3.0
BIOL 101L	Introductory Biology: General Biology (Laboratory)	1.0
BIOL 102	Introductory Biology: Pre-Nursing and Allied Health	4.0
BIOL 145	Introduction to Anatomy and Physiology	3.0
BIOL 145L	Introduction to Anatomy and Physiology Laboratory	1.0
BIOL 200	Foundations of Biology I	4.0
BIOL 201	Foundations of Biology II	4.0
BIOL 212	Fundamentals of Microbiology	4.0
CHEM 100	Fundamentals of Chemistry	4.0
CHEM 104	General Organic and Biochemistry	5.0
CHEM 105	Fundamentals of Organic Chemistry	4.0
CHEM 110	General Chemistry	3.0
CHEM 110L	General Chemistry Laboratory	2.0
CHEM 115	General Chemistry	3.0
CHEM 115L	General Chemistry Laboratory	2.0
CHEM 205	Introductory Biochemistry	3.0
HE 100	Health Education and Fitness Dynamics	3.0
HE 104	Emergency Medical Responder	3.0
KINE 100	Introduction to Kinesiology	3.0
KINE 176	Athletic Training	3.0
NUTR 100	Introduction to Nutrition and Food Professions	3.0
NUTR 165	Introduction to Human Nutrition	3.0

NUTR 185	Science of Human Nutrition	3.0
PHYS 120	General Physics	4.0
PHYS 121	General Physics	4.0
PHYS 200	Fundamentals of Physics	5.0
PHYS 201	Fundamentals of Physics	5.0
PSYC C1000	Introduction to Psychology	3.0
PSYC 145	Psychology and Sociology of Aging	3.0
PSYC 210	Physiological Psychology	4.0
PSYC 230	Research Methods in Psychology	4.0
SOC 100	Introduction to Sociology	3.0
Only one of the following MATH courses may count toward the 10 units in the major electives.		3.0-5.0
MATH 100	Exploring Mathematics	3.0
OR		
MATH 100E	Exploring Mathematics Enhanced	3.0
OR		
MATH 101	Practical Math: Quantitative Reasoning	3.0
OR		

MATH 101E	Practical Math: Quantitative Reasoning Enhanced	3.0
OR		
MATH 110	College Algebra	4.0
OR		
MATH 110E	College Algebra Enhanced	4.0
OR		
MATH 115	Trigonometry	3.0
OR		
MATH 115E	Trigonometry Enhanced	3.0
OR		
MATH 135	Precalculus Mathematics	5.0
OR		
MATH 140	Calculus with Analytic Geometry, First Course	5.0
OR		
MATH 140E	Calculus with Analytic Geometry, First Course Enhanced	5.0

Total: 18.0

University Studies: Emphasis in Scientific Studies - A.S. Degree Major (18 units or more)

General Education Department

The Associate in Science in University Studies Scientific Studies emphasizes the investigation into scientific theory where students will apply the scientific method in the testing and examination of the hypothesis. This degree helps facilitate transfer to the CSU, UC, and independent colleges and universities in majors such as Aeronautical Engineering, Aerospace Engineering, Astrophysics, Biological Engineering, Chemical Engineering, Chemical and Physical Sciences, Civil Engineering, Cognitive Science, Computer Engineering, Computer Science, Construction Engineering, Data Science, Electrical Engineering, Engineering Physics, Environmental Science, Food and Nutrition, Mechanical Engineering, Software Engineering, and Structural Engineering.

University Studies general education requires full completion of the The California General Education Transfer Curriculum (Cal-GETC).

Students should consult with a Palomar College Academic Counselor as this degree accommodates a wide variety of majors and admission requirements and major preparation may vary.

Learning Outcome(s):

1. Apply quantitative reasoning concepts to solve problems
2. Synthesize and evaluate knowledge gained from applying the scientific method

General Education:

The California General Education Transfer Curriculum (Cal-GETC)

Mathematics. Choose one course.   **Units:** 3.0-4.0

MATH 110	College Algebra	4.0
MATH 110E	College Algebra Enhanced	4.0
MATH 115	Trigonometry	3.0
MATH 115E	Trigonometry Enhanced	3.0
MATH 126	STEM Precalculus I - College Algebra	4.0

MATH 127	STEM Precalculus II - Trigonometry and Analytic Geometry	4.0
MATH 130	Calculus for Business and the Social Sciences	4.0
MATH 130E	Calculus for Business and the Social Sciences Enhanced	4.0
MATH 135	Precalculus Mathematics	5.0
MATH 140	Calculus with Analytic Geometry, First Course	5.0
MATH 140E	Calculus with Analytic Geometry, First Course Enhanced	5.0
MATH 141	Calculus with Analytic Geometry, Second Course	4.0
MATH 141E	Calculus with Analytic Geometry, Second Course Enhanced	4.0
MATH 200	Introduction to Linear Algebra	3.0
MATH 205	Calculus with Analytic Geometry, Third Course	4.0
MATH 206	Calculus with Differential Equations	4.0
MATH 245	Discrete Mathematics	3.0
Or choose one course from the following:		0.0-4.0
BUS 204	Quantitative Business Analysis	4.0
OR		
STAT C1000	Introduction to Statistics	4.0
OR		
STAT C1000E	Introduction to Statistics	4.0
OR		
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0
OR		
SOC 180	Social Justice Statistics	3.0
OR		
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0

Physical and Earth Science. Choose a course and its corresponding lab if a corresponding lab was not already completed in the life science list. Courses without labs are indicated as 3.0 units. **Units:** 3.0-5.0

ASTR 100	Principles of Astronomy	3.0
ASTR 105L	Introduction to Astronomy Laboratory	1.0
GEOL 120 / ASTR 120	Planets, Moons, and Comets	3.0
CHEM 100	Fundamentals of Chemistry	4.0
CHEM 104	General Organic and Biochemistry	5.0
CHEM 105	Fundamentals of Organic Chemistry	4.0
CHEM 110	General Chemistry	3.0
CHEM 110L	General Chemistry Laboratory	2.0
CHEM 115	General Chemistry	3.0
CHEM 115L	General Chemistry Laboratory	2.0
CHEM 205	Introductory Biochemistry	3.0
CHEM 220	Organic Chemistry	5.0
CHEM 221	Organic Chemistry	5.0
GEOG 100	Earth's Dynamic Environment: Introduction to Physical Geography	3.0
GEOG 100L	Earth's Dynamic Environment: Physical Geography Lab	1.0
GEOG 110	Meteorology: Weather and Climate	3.0
ES 115 / GEOG 115	Natural Disasters and Environmental Hazards	3.0
GEOL 100	Physical Geology	3.0
GEOL 100L	Geology Laboratory	1.0
GEOL 110	General Geology: National Parks and Monuments	3.0
GEOL 120 / ASTR 120	Planets, Moons, and Comets	3.0
GEOL 150	Dinosaurs and Earth History	3.0
GEOL 150L	Dinosaurs and Earth History Laboratory	1.0
OCN 100	Oceanography Lecture	3.0
OCN 100L	Oceanography Laboratory	1.0
PHSC 101	Principles of Physical Science	3.0
PHYS 101	Introduction to Physics	4.0
PHYS 102	Introduction to Physics (Lecture)	3.0
PHYS 120	General Physics	4.0
PHYS 121	General Physics	4.0
PHYS 200	Fundamentals of Physics	5.0
PHYS 201	Fundamentals of Physics	5.0
PHYS 230	Principles of Physics	5.0
PHYS 231	Principles of Physics	5.0
PHYS 232	Principles of Physics	4.0

Life Science. Choose a course and its corresponding lab if the corresponding lab was not already completed in the physical and earth science list. Courses without labs are indicated as 3.0 units. **Units:** 3.0-5.0

ANTH 100	Introduction to Biological Anthropology	3.0
ANTH 100L	Biological Anthropology Laboratory	1.0
ANTH 101	Introduction to Biological Anthropology	4.0
BIOL 100	Introductory Biology: General Biology	4.0
BIOL 101	General Biology (Lecture)	3.0
BIOL 101L	Introductory Biology: General Biology (Laboratory)	1.0
BIOL 102	Introductory Biology: Pre-Nursing and Allied Health	4.0
BIOL 110	Human Genetics	3.0
BIOL 118	Introductory Biology: Ecology (Lecture)	3.0
BIOL 118L	Introductory Biology: Ecology (Laboratory)	1.0
BIOL 125	Introductory Biology: Botany	4.0
BIOL 126	Introductory Biology: Botany	3.0
BIOL 126L	Introductory Biology: Botany (Laboratory)	1.0
BIOL 130	Introductory Biology: Marine Biology	4.0
BIOL 131	Introductory Biology: Marine Biology (Lecture)	3.0
BIOL 131L	Introductory Biology: Marine Biology (Laboratory)	1.0
BIOL 135	Introductory Biology: Marine Mammals	3.0
BIOL 140	Introductory Biology: Zoology	4.0
BIOL 145	Introduction to Anatomy and Physiology	3.0
BIOL 145L	Introduction to Anatomy and Physiology Laboratory	1.0
BIOL 200	Foundations of Biology I	4.0
BIOL 201	Foundations of Biology II	4.0
BIOL 210	Anatomy	4.0
BIOL 211	Physiology	4.0
BIOL 212	Fundamentals of Microbiology	4.0
PSYC 210	Physiological Psychology	4.0

Computer Science and Engineering. Choose a minimum of 9 units from the following list or from any courses not already used above. **Units:** 9.0

CSIT 175	Python Programming	3.0
CSCI 112	Programming Fundamentals I	4.0
CSCI 114	Programming Fundamentals II	4.0
CSCI 210	Data Structures	4.0
CSCI 212	Machine Organization and Assembly Language	4.0
CSCI 222	C++ and Object-Oriented Programming	4.0
ENGR 210	Electrical Network Analysis	3.0
ENGR 210L	Electrical Network Analysis Lab	1.0
ENGR 235	Engineering Mechanics - Statics	3.0
ENGR 236	Engineering Mechanics - Dynamics	3.0
ENGR 245	Properties of Materials	4.0
PHYS 210	Matlab for Science and Engineering	3.0

Total: 18.0-23.0

University Studies: Emphasis in Social Sciences - A.A. Degree Major (18 units or more)

General Education Department

The Associate in Science in University Studies Social Sciences emphasizes the examination of social and political institutions, cultural and social organizations, and the sociocultural, intellectual, and historical experiences that inform the construction of racial, gender, and cultural identities. This degree helps facilitate transfer to the CSU, UC, and independent colleges and universities in majors such as American Studies, American Indian Studies, Africana Studies, Asian Studies, Chicana and Chicano Studies, Ethnic Studies, Gender and Women Studies, Global Health, Lesbian, Gay, Bisexual and Transgender Studies, Social Sciences, and Urban Studies and Planning.

University Studies general education requires full completion of The California General Education Transfer Curriculum (Cal-GETC).

Because admissions and major preparation requirements vary at each transfer institution, courses used to fulfill requirements for an emphasis should be selected with the assistance of a Palomar College counselor.

Learning Outcome(s):

1. Design and formulate research methods addressing problems in social and political institutions.
2. Evaluate the cultural and social organizations in which they exist.
3. Describe the sociocultural, intellectual, and historical experiences that inform the construction of racial, gender, and cultural identities.

General Education:

The California General Education Transfer Curriculum (Cal-GETC)

Social and Political Institutions. Choose one course. **Units:** 3.0

AS 101	African-American History I	3.0
AS 102	African-American History II	3.0
AIS 101	History of American Indian Nations from Creation through the Present	3.0
AIS 102	The American Indian and the U.S. Political System	3.0
CS 101	United States History from a Chicano Perspective I	3.0
CS 102	United States History from a Chicano Perspective II	3.0
HIST 101	History of the United States Through Reconstruction	3.0
HIST 102	History of the United States Since Reconstruction	3.0
HIST 140	History of the Americas Through 1800	3.0
HIST 141	History of the Americas Since 1800	3.0
POLS C1000	American Government and Politics	4.0
RS 102	Religion in American History	3.0
RS 103	Religion and American Political Institutions	3.0

Ethnic Studies. Choose one course from the following list not already completed from above: **Units:** 3.0

AIS 100	Introduction to American Indian Studies	3.0
AIS 101	History of American Indian Nations from Creation through the Present	3.0
AIS 102	The American Indian and the U.S. Political System	3.0
AIS 125	American Indians Today	3.0
AS 100	Introduction to African American Studies	3.0
AS 101	African-American History I	3.0
AS 102	African-American History II	3.0
CS 100	Introduction to Chicano Studies	3.0
CS 101	United States History from a Chicano Perspective I	3.0
CS 102	United States History from a Chicano Perspective II	3.0
CS 140	Chicana History and Feminism	3.0
CS 160	US-Mexican International Border	3.0

Perspectives on Social Sciences. Choose a minimum of 12 units from the following list or from any courses listed above not already completed. **Units:** 12.0

AAS 100	Introduction to Asian American Studies	3.0
AIS 110	History of the Plains Indian	3.0
AIS 115	A History of Southwest Indians	3.0
AIS 121	Pacific Islanders	3.0
AIS 130 / ANTH 130	Prehistoric Cultures of North America	3.0
AIS 140 / ANTH 140	The Original Californians	3.0
AIS 165	Native Women in the Americas	3.0
AJ 100	Introduction To Criminal Justice	3.0
ANTH 103	Bones: Human Osteology	3.0
ANTH 105	Introduction to Cultural Anthropology	3.0
ANTH 107	Language and Culture	3.0
ANTH 110	Introduction to Archaeology	3.0
ANTH 115	People and Cultures of the World	3.0
ANTH 125	Evolution, Science and Religion	3.0
ANTH 126	Cultures of Africa	3.0
ANTH 137	Medical Anthropology: Culture, Illness and Healing	3.0
AS 100	Introduction to African American Studies	3.0
AS 120	Introduction to Africana Social Institutions and Behavior	3.0
ASL 110	Awareness of Deaf Culture	3.0
BUS 204	Quantitative Business Analysis	4.0
CHDV 100	Child Growth and Development	3.0
CHDV 110	Introduction to Children with Disabilities	3.0
CHDV 115	Child, Family, and Community	3.0
EDUC 172 / CHDV 172	Teaching in a Diverse Society	3.0
COMM 100	Introduction to Mass Communication	3.0
COMM 105	Race, Gender and Media Effects	3.0
ECON 100	Basic Economics	3.0
ECON 101	Principles of Economics (Macro)	3.0
ECON 102	Principles of Economics (Micro)	3.0
ECON 110	Comparative Economic Systems	3.0
ECON 115	Economic History of the United States	3.0
ECON 120	Environmental Economics	3.0
ECON 125	Introduction to Labor Studies	3.0
ENG 150	Introduction to Linguistics	3.0
GBST 101	Introduction to Global Studies	3.0
GBST 102	Global Issues	3.0
GEOG 103	World Regional Geography	3.0
GEOG 105	People and the Environment: Introduction to Human Geography	3.0
HIST 105	History of Europe Through the Reformation	3.0
HIST 106	History of Europe Since the Reformation	3.0
HIST 107	World History To 1650	3.0
HIST 108	World History Since 1650	3.0
HIST 121	History of California	3.0
HIST 130	Women in United States History	3.0
HIST 150	History of Latin America to 1824	3.0
HIST 151	History of Latin America from Independence to the Present	3.0
HIST 160	History of the Middle East from 600 to the Present	3.0
MCS 100	Introduction to Multicultural Studies	3.0
POSC 100	Introduction to Political Science	3.0
POSC 110	Introduction to World Politics	3.0

PSYC C1000	Introduction to Psychology	3.0
PSYC 105 / SOC 105	Marriage, Family and Intimate Relationships	3.0
PSYC 110	Developmental Psychology - Child Through Adult	3.0
PSYC 120	Social Psychology	3.0
PSYC 130	Psychology of Gender	3.0
PSYC 211	Introduction to Cognitive Psychology	3.0
PSYC 225	Psychology of Abnormal Behavior	3.0
PSYC 235	Principles of Learning and Behavior Modification	3.0
RS 108	History of Christianity	3.0
SOC 100	Introduction to Sociology	3.0
SOC 200 / AMS 200 / MCS 200	Race, Class, and Ethnic Groups in America	3.0
SOC 110	Social Problems	3.0
SOC 115	Introduction to Women's Studies	3.0
SOC 130	Introduction to Sociology of Health	3.0
SOC 135	Gender and Society	3.0
SOC 165	Self and Society	3.0
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0
SOC 170	Introduction to Justice Studies	3.0
SOC 175	Introduction to LBGTQI Studies	3.0
SOC 180	Social Justice Statistics	3.0
SPCH 120	Human Communication	3.0
SPCH 131	Intercultural Communication	3.0
Quantitative Reasoning Option: Choose one from the following list. Unit limitation: Only one course from this		3.0-5.0

list may apply toward the University Studies Social Science degree.		
BUS 204	Quantitative Business Analysis	4.0
OR		
STAT C1000	Introduction to Statistics	4.0
OR		
STAT C1000E	Introduction to Statistics	4.0
OR		
MATH 140	Calculus with Analytic Geometry, First Course	5.0
OR		
MATH 140E	Calculus with Analytic Geometry, First Course Enhanced	5.0
OR		
MATH 141	Calculus with Analytic Geometry, Second Course	4.0
OR		
MATH 141E	Calculus with Analytic Geometry, Second Course Enhanced	4.0
OR		
MATH 200	Introduction to Linear Algebra	3.0
OR		
MATH 205	Calculus with Analytic Geometry, Third Course	4.0
OR		
SOC 205 / PSYC 205	Statistics for the Behavioral Sciences	4.0
OR		
SOC 180	Social Justice Statistics	3.0

Total: 18.0

Veneering Technology - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

The world's most beautiful woods are processed into veneers. Veneered furniture has a rich history in both period and contemporary furniture. This program will prepare students to make a living manufacturing veneered furniture. The study of historic period pieces will enable students to apply traditional methods of construction to modern and contemporary designs. Students will be able to design and fabricate period furniture as well as contemporary furniture pieces which use veneer as the primary visual wood or utilize veneer in the visual design elements of the piece. Students will be able to work with a client to design and fabricate commissioned veneered furniture pieces. Students will also be able to design a line of furniture, which can be fabricated, utilizing a combination of production methods of hand craftsmanship. The finest furniture in the world is handmade and yet production methods can/will be applied to increase efficiency and profit.

Learning Outcome(s):

1. Student will be able to write a business plan for a veneer related business.
2. Students will be able to competently use hand tools in basic and complex veneering operations.
3. Students will be able to create a line of veneered furniture and create production methods to be able to produce high quality furniture in a time efficient manner.
4. Students will be able to make judgements as to when simple and traditional methods/processes are appropriate to use.
5. Students will be able to work with client to design and construct custom veneered furniture.

6. Students will be able to work with client to design and construct period veneered furniture.
7. Students will be prepared to set up a shop to run their own bussiness.

Program Requirements — **Units:** 20.0

CFT 100	Fundamentals of Woodworking	4.0
CFT 105	Machine Woodworking/Furniture	4.0
CFT 108	Business Woodworking	2.0
Furniture Design (select one of the following)		2.0
CFT 118	Furniture Design Development	2.0
OR		
CFT 153	Studio Furniture Design I	2.0
CFT 148	Marquetry, Inlay and Veneering	2.0
CFT 151	Veneering Technology I	2.0
CFT 152	Veneering Technology II	2.0
CFT 195	Finishing Technology/Touch-Up and Repair	2.0

Electives (Select 2 units) — **Units:** 2.0

CFT 110A	Period Case Furniture Design	4.0
CFT 111A	Period Case Furniture Production	4.0
CFT 142	The Art and Craft of Planemaking	2.0
CFT 143	Decorative Box Making	2.0
CFT 144	Production Wood Products I	1.0

			Total: 22.0
CFT 145	Production Wood Products II	1.0	
CFT 180	Wood Bending and Lamination/Wood Technology	2.0	

Wastewater Technology Education - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

This program provides comprehensive education to a diverse constituency for a career in the water and wastewater field that prepares students to contribute effectively in a profession responsible for protecting public health. Students will be qualified and prepared for industry certification exams including the State Water Resources Control Board and other certifying organizations.

Learning Outcome(s):

1. Demonstrate the ability to analyze data, troubleshoot a problem, and apply a solution to a water/wastewater related issue.
2. Demonstrate the ability to perform calculations based on operational data with a myriad of variables in order to perform duties as a water or wastewater operator.
3. Communicate effectively through written and verbal means by describing water/wastewater systems, related issue, and the appropriate action to resolve the situation.
4. Describe, interpret, and apply federal, state, and local regulations for water and wastewater systems.
5. Develop a working knowledge of industry equipment and nomenclature.
6. Inspect, evaluate, and operate wastewater collection systems and wastewater treatment plants.
7. Inspect, evaluate, and operate water distribution systems and water treatment plants.

Wastewater Technology Program Requirements		**Units:** 21.0
WTE 149	Calculations in Water/Wastewater Technology	3.0
WTE 153	Basic Plant Operations: Wastewater Treatment	3.0
WTE 155	Wastewater Collection Systems	3.0
WTE 156	Intro to Electrical and Instrumentation Processes	3.0
WTE 160	Public Works Management	3.0
WTE 166	Motors, Pumps, and Hydraulics	3.0
WTE 263	Advanced Plant Operations: Wastewater Treatment	3.0

Wastewater Technology Electives (Select 9 units)		**Units:** 9.0
WTE 51	Career Pathways in Water Technology	3.0
WTE 102	Fundamentals of Water and Wastewater	3.0
WTE 158	Backflow Tester Training	3.0
WTE 162	Cross Connection Specialist	3.0
WTE 164	Laboratory Analysis for Water/Wastewater	3.0
WTE 197	Water Technology Education Topics	3.0-4.0
CE 100	Cooperative Education[*]	3.0-4.0

[*]Cooperative Education must be related to this major.

Total: 30.0

Water Technology Education - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

This program provides comprehensive education to a diverse constituency for a career in the water and wastewater field that prepares students to contribute effectively in a profession responsible for protecting public health. Students will be qualified and prepared for industry certification exams including the State Water Resources Control Board and other certifying organizations.

Learning Outcome(s):

1. Analyze data, troubleshoot a problem, and apply a solution to a water/wastewater related issue.
2. Perform calculations based on operational data with a myriad of variables in order to perform duties as a water or wastewater operator.
3. Effectively communicate both in writting and verbally how to operate water/wastewater systems and resolve common problems in a safe manner.
4. Describe, interpret, and apply federal, state, and local regulations for water and wastewater systems.
5. Develop a working knowledge of industry equipment and nomenclature that can be used when describing, analyzing, and designing water/wastewater systems.
6. Inspect, evaluate, and operate wastewater collection systems and wastewater treatment plants.
7. Inspect, evaluate, and operate water distribution systems and water treatment plants.

Water Technology Program Requirements		**Units:** 21.0
WTE 149	Calculations in Water/Wastewater Technology	3.0
WTE 152	Water Distribution Systems	3.0
WTE 154	Basic Plant Operations: Water Treatment	3.0
WTE 156	Intro to Electrical and Instrumentation Processes	3.0
WTE 160	Public Works Management	3.0
WTE 164	Laboratory Analysis for Water/Wastewater	3.0
WTE 166	Motors, Pumps, and Hydraulics	3.0

Water Technology Electives (Select 9 units)		**Units:** 9.0
WTE 51	Career Pathways in Water Technology	3.0
WTE 102	Fundamentals of Water and Wastewater	3.0
WTE 158	Backflow Tester Training	3.0
WTE 162	Cross Connection Specialist	3.0
WTE 197	Water Technology Education Topics	0.5-4.0
WTE 272	Water Distribution II	3.0

WTE 274	Advanced Plant Operations: Water Treatment and Reclamation	3.0
CE 100	Cooperative Education*	3.0-4.0

*Cooperative education must be related to this major.

Total: 30.0

Web Design and Development - A.S. Degree Major/Cert. Achievement (18 units or more)

Computer Science & Information Systems Department

Web Design and Development is a series of courses that bind both Website Design and Website Programming to produce quality information for an organization. Web professionals that do both design and programming are generally employed in small-to-midsize businesses that need their employees to have a wide range of skills to implement a businesses Web presence.

Key areas of focus in this degree are: Web Page Design and Layout; Web Graphics; Design of Applications for Mobile Devices; Web Accessibility; HTML; Cascading Style Sheets (CSS); JavaScript/jQuery; Ajax, Social Media and server-side development languages, such as PHP or ASP.

Learning Outcome(s):

1. Demonstrate proficiency in Programming Web applications
2. Demonstrate proficiency in Designing Web applications
3. Be able to market their Web Development skills.

Program Requirements		**Units:** 26.0
CSIT 150	Introduction to SQL	3.0
BUS 152	Social Media for Business	3.0
CSWB 110	Web Site Development with HTML5/CSS3	3.0
CSWB 120	JavaScript and PHP	3.0
GCMW 102	Web Page Layout I	3.0
GCMW 202	Web Page Layout II	3.0
GCIP 140	Photoshop for Digital Imaging I	3.0
BUS 155	Marketing	3.0
GCMW 115	Web Page Layout/WordPress I	2.0

Total: 26.0

Web Designer I - Certificate of Achievement (8-15 units)

Graphic Communications Department

Web Designer I Certificate prepares a student for employment in an entry level position through a streamlined format. Web design skills are in demand because producing for the web is the new literacy. Students will have a choice of industry standard platforms, such as WordPress or Adobe Dreamweaver. Skill-building for planning, message design, user experience, the graphical user interface, file management, navigation architecture, design and layout, managing graphics, search engine optimization, and troubleshooting are among the topics in this program. The courses in this certificate are hands-on and may be taken online through distance education.

Learning Outcome(s):

1. Upon completion of the course, the student will be able to develop a Website with graphics, navigation, content, which implements proper page layout and accessibility standards and which implements proper file management procedures.

2. Upon completion of the course, the student will be able to develop and post a 4-page or more website in either WordPress or Adobe Dreamweaver.

Required courses		**Units:** 8.0-9.0
GCIP 140	Digital Imaging/Photoshop I	3.0
GCMW 177	Search Engine Optimization (SEO) for Web Design	3.0
Select one course		2.0-3.0
GCMW 102	Web Page Layout I	3.0
OR		
GCMW 115	Web Page Layout/WordPress I	2.0

Total: 8.0-9.0

Web Development - Certificate of Achievement (8-15 units)

Computer Science & Information Systems Department

This program includes the Web page design and programming languages that allow a developer to build dynamic Web applications.

Learning Outcome(s):

1. Develop Client-Side Web Applications: demonstrate proficiency in creating and programming the client-side of Web applications
2. Develop Server-Side Web Applications: demonstrate proficiency in programming the server-side of Web applications

Program Requirements		**Units:** 9.0
CSIT 150	Introduction to SQL	3.0
CSWB 110	Web Site Development with HTML5/CSS3	3.0
CSWB 120	JavaScript and PHP	3.0

Total: 9.0

Web: Front End Design - A.S. Degree Major/Cert. Achievement (18 units or more)

Graphic Communications Department

This certificate prepares students to gain competence with the industry standards for web design and development through a range of digital and software skills. Core competencies include project

management, site and file management, cross-platform design and development, and distribution across the Internet. Courses offer opportunities for front- and back-end development, current popular

software, search engine optimization, social media, user experience, responsive web development for a range of digital devices, web graphics, and accessibility compliance. Students will be able to make choices with message design, web graphic design, motion graphics, coding, and advanced web skills.

Learning Outcome(s):

1. Integrate web development and digital graphics and multimedia skills that incorporate a range of applications and techniques into a final online site that adapts to a range of devices.
2. Plan project management for comprehensive website development that includes message and screen design for enhanced user experience across platforms and devices.

Program Requirements		**Units:** 17.0
Elective (select one of the following two courses)		3.0
BUS 157	E-Commerce	3.0
OR		
CSWB 110	Web Site Development with HTML5/CSS3	3.0

GCMW 102	Web Page Layout I	3.0
GCMW 202	Web Page Layout II	3.0
GCMW 177	Search Engine Optimization (SEO) for Web Design	3.0
GCIP 140	Digital Imaging/Photoshop I	3.0
GCMW 115	Web Page Layout/WordPress I	2.0

Electives: Select one course		**Units:** 2.0-3.0
GC 115	Graphics and Media: A Multicultural Perspective	3.0
GCIP 152	Digital Publishing/Illustrator I	3.0
GCMW 165	Digital Video Design	3.0
GCMW 215	Web Page Layout/WordPress II	2.0

Total: 19.0-20.0

Welding Technology - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

Provides training for a career in the field of welding. Following the study of basic welding processes, the student may elect to concentrate in one or more of the basic welding processes and to prepare for the industrial certification test.

Program Requirements		**Units:** 30.0
WELD 100	Welding I	3.0
IT 108 / WELD 108	Technical Mathematics	3.0
WELD 110	Shielded Metal Arc Welding	3.0

WELD 115	Gas Tungsten Arc Welding	3.0
WELD 120	Gas Metal Arc and Flux Cored Arc Welding	3.0
WELD 135	Print Reading for Welders	3.0
WELD 140	Qualification of Welders	3.0
WELD 145	Pipe Welding	3.0
WELD 150	Welding Inspection	3.0
WELD 160	Metal Layout for Fabrication	3.0

Total: 30.0

Woodworking Fundamentals - Certificate of Achievement (12-17 units)

Trade & Industry Department

This program provides the foundational skills needed to enter the workplace and/or pursue an advanced degree in Cabinet and Furniture Technology. Students will have the technical knowledge and skills needed to select the appropriate raw materials required to design and fabricate wooden components; to set up, operate and maintain industrial woodworking machinery, and to complete assigned woodworking projects.

Program Requirements		**Units:** 12.0

CFT 100	Fundamentals of Woodworking	4.0
CFT 105	Machine Woodworking/Furniture	4.0
CFT 149	Hand Joinery I	2.0
CFT 195	Finishing Technology/Touch-Up and Repair	2.0

Total: 12.0

Woodworking Skills Technology - A.S. Degree Major/Cert. Achievement (18 units or more)

Trade & Industry Department

The finest furniture in the world is hand made. Skilled craftsman are rare and valuable. There is always a market for quality. This program will prepare students to make a living at woodworking with an emphasis on hand skills, traditional methods and European craftsmanship. Students will gain competence in the use of hand tools, power tools, and power machines and be able to properly select and safely use/operate them. Students will be able efficiently sharpen all of hand tools used. Students will gain basic proficiency in the following processes/techniques/skills; lathe turning, carving, wood bending, veneering, hand joinery and finishing. Students will

also be able to write a business plan and gain an understanding of the operations of running a small business.

Learning Outcome(s):

1. Student will be able to mill and prepare stock as well as produce joinery and cosmetic details for furniture and architectural applications.
2. Students will be able to competently use hand tools in basic and complex operations.

3. Students will be able to effectively sharpen all appropriate hand tools including lathe tools and carving tools.
4. Students will be able to make judgements as to when simple and traditional methods/processes are appropriate to use.
5. Students will be prepared to set up a shop to run their own bussiness.

Program Requirements   **Units:** 20.0

CFT 100	Fundamentals of Woodworking	4.0
CFT 108	Business Woodworking	2.0
Furniture Design (select one of the following)		2.0
CFT 118	Furniture Design Development	2.0
OR		
CFT 153	Studio Furniture Design I	2.0
CFT 149	Hand Joinery I	2.0
CFT 151	Veneering Technology I	2.0
CFT 176	The Lathe - An Introduction to Woodturning	2.0

CFT 180	Wood Bending and Lamination/Wood Technology	2.0
CFT 187	Introduction to Carving	2.0
CFT 195	Finishing Technology/Touch-Up and Repair	2.0

Electives (Select 2 units)   **Units:** 2.0

CFT 142	The Art and Craft of Planemaking	2.0
CFT 143	Decorative Box Making	2.0
CFT 144	Production Wood Products I	1.0
CFT 145	Production Wood Products II	1.0
CFT 155	Classic American Chair Designs	2.0
CFT 156	Advanced Classic American Chair Designs	2.0
CFT 175	Jigs/Fixtures and Routers	2.0

Total: 22.0

9 NONCREDIT PROGRAMS

Adult Basic Education - Certificate of Completion (Noncredit-Hours only; no units)

Occupational and Noncredit Programs Department

This two-course sequence is designed to equip students with the basic reading and writing skills, basic computational skills and critical thinking skills needed for employment or to prepare for GED preparation courses, job training and college level courses for a career or for associate or transfer degree programs. In order to earn a certificate, students must successfully complete N ABED 902 by passing the course with a grade of P.

Learning Outcome(s):

1. Upon completing the N ABED program, students will write organized and coherent texts using standard spelling, punctuation, and sentence structure.
2. Upon completing the N ABED program, students will analyze written information to determine a writer's main ideas and intent.
3. Upon completing the N ABED program, students will use knowledge of arithmetic operations, fractions, percentages, basic algebra, and basic geometry to successfully find solutions that require mathematical reasoning.
4. Upon completing the N ABED program, students demonstrate language and personal skills sufficient to be able to apply for a job.
5. Upon completing N ABED program, the student will demonstrate intermediate skills in writing, reading, and math so as to successfully continue their education beyond the N ABED program.

Certificate Requirements		**Units:** 0.0
N ABED 901	Literacy/Adult Basic Education I	0.0
N ABED 902	Literacy/Adult Basic Education II	0.0
		Total: 0.0

Adult Education Workforce Preparation - Certificate of Completion (Noncredit-Hours only; no units)

Workforce, Community, and Continuing Education

The objective of the Pre-Vocational Certificate of Completion is to help students develop foundational skills to increase their independence at home, in the community, and in the workforce. The six courses required for the certificate assist students in building confidence with goal-setting, communication, and problem-solving in everyday situations.

Learning Outcome(s):

1. Identify and effectively communicate needs to individuals in the home, community, and workplace.
2. Use critical thinking skills to identify a problem and find a solution.
3. Create appropriate S.M.A.R.T. goals and a plan for achieving them.

Program Requirements		**Units:** 0.0
N AEWP 901	Foundations of Lifelong Wellness	0.0
N AEWP 902	Practical Living Skills	0.0
N AEWP 903	Interpersonal Relationships and Communication	0.0
N AEWP 904	Self-Advocacy and Personal Safety	0.0
N AEWP 905	Critical Thinking and Problem Solving	0.0
N AEWP 906	Basic Computer Skills	0.0
		Total: 0.0

College Preparation - Certificate of Competency (Noncredit-Hours only; no units)

Occupational and Noncredit Programs Department

This program is designed to help prepare students for college level English and Mathematics.

Learning Outcome(s):

1. Demonstrate at least one year's growth in reading as measured by pre/post standardized testing.
2. Demonstrate their ability to predict a logical outcome based on information in a reading selection.
3. Demonstrate their ability to use arithmetic operations and the Order of Operations agreement to simplify numerical expressions.
4. Demonstrate their ability to write a paragraph that is clearly organized, logically developed, and coherent.
5. Demonstrate their ability to apply problem-solving strategies to solve multi-step problems.

Program Requirements		**Units:** 0.0
N READ 950	Reading and Language Arts	0.0
N MATH 915	Mathematical Literacy	0.0
		Total: 0.0

Computer Skills for ESL - Certificate of Completion (Noncredit-Hours only; no units)

English as a Second Language Department

This three-course sequence is designed to equip non-native speakers of English with basic computer literacy and skills needed to be successful in today's digital world. This program will prepare students to be confident performing basic computer tasks in the workplace or in college-level courses for career, associate, or transfer degree programs. There are no prerequisites or placement tests required for

these courses. In order to earn a certificate, students must successfully complete all three courses (NESL 982, 983, & 984).

Learning Outcome(s):

1. Students will use computers to present information.
2. Students will gather information for research using a computer.

Program Requirements		Units: 0.0
N ESL 982	Computer Skills 1 - Foundational Skills	0.0
N ESL 983	Computer Skills 2 - Office Applications	0.0
N ESL 984	Computer Skills 3 - The Digital Age	0.0
		Total: 0.0

Conversation Skills for ESL - Certificate of Completion (Noncredit-Hours only; no units)

English as a Second Language Department

This two-course sequence is designed to equip non-native speakers of English with beginning English language conversation skills. This program will prepare students for success in the workplace and/or credit courses. In order to earn a certificate, students must successfully complete N ESL 923.

Learning Outcome(s):

1. Students will ask and answer questions in English.
2. Students will understand and correctly identify an English speaker's main point.

Program Requirements		Units: 0.0
N ESL 922	Beginning Conversation 1	0.0
N ESL 923	Beginning Conversation 2	0.0
		Total: 0.0

English as a Second Language - Certificate of Completion (Noncredit-Hours only; no units)

English as a Second Language Department

This sequence of four courses is designed to equip non-native speakers of English with the listening, speaking, reading and writing skills at the low-intermediate level in English needed for employment or to successfully complete college level courses for a career or for associate or transfer-degree programs. A placement process determines appropriate initial placement in the sequence. In order to earn a certificate, students must successfully complete N ESL 904.

Learning Outcome(s):

1. Demonstrate an ability to speak intelligibly and communicate in English.
2. Write, revise and edit a basic piece of academic writing (a paragraph).
3. Demonstrate an ability to read and comprehend simple (California Pathways mid-intermediate level) texts.

Program Requirements		Units:
N ESL 901	Beginning ESL I	0.0
ESL II/Basic ESL Skills		
N ESL 902	Beginning ESL II	0.0
OR		
N ESL 972	Basic ESL Skills	0.0
N ESL 903	Beginning ESL III	0.0
N ESL 904	Intermediate ESL I	0.0
		Total: 0

ESL Work Readiness - Certificate of Completion (Noncredit-Hours only; no units)

English as a Second Language Department

The Work Readiness Certificate prepares students to get and maintain employment in the U.S. It prepares students to join the workforce immediately or to continue their education in the pursuit of a career.

Learning Outcome(s):

1. Students will demonstrate effective workplace communication skills including cultural competency, collaboration, and problem-solving.
2. Students will demonstrate technology skills for the workplace including research skills, Microsoft Word, email, and giving presentations using technology.

ESL Work Readiness		Units: 0.0
N ESL 984	Computer Skills 3 - The Digital Age	0.0
N ESL 994	Working in the U.S.	0.0
N ESL 993	Career Exploration and Job Skills	0.0
		Total: 0.0

Getting Started with Drone Careers and Safety - Certificate of Competency (Noncredit-Hours only; no units)

Earth, Space and Environmental Sciences

This program will provide students and members of the general public with a basic understanding of drone safety, applications, and career pathways. Students will learn about general safety principles in drone operations, as well as specific requirements that apply to recreational and commercial drone operators. In addition, students will learn about best practices from industry professionals and veterans who have pursued different career pathways in the civilian commercial drone industry.

Learning Outcome(s):

1. Differentiate between the registration requirements for recreational versus commercial drone operations in the US.

2. Compare and contrast the skills and qualifications for different drone-related careers.

Program Requirements   **Units:** 0.0

N GEOG 900	Introduction to Drone Safety and Applications	0.0

N GEOG 901	Careers in the Drone industry	0.0

Total: 0.0

Grammar Skills for ESL - Certificate of Completion (Noncredit-Hours only; no units)

English as a Second Language Department

This three-course sequence is designed to equip non-native speakers of English with the grammatical skills and knowledge needed for academic writing and for success in career, associate, or transfer-degree programs. In order to earn a certificate, students must successfully complete N ESL 914.

Learning Outcome(s):

1. Students will write an English composition with correct uses of verbs.

2. Students will identify and correct errors in a piece of writing.

Program Requirements   **Units:** 0.0

N ESL 912	ESL Grammar Skills I	0.0
N ESL 913	ESL Grammar Skills II	0.0
N ESL 914	ESL Grammar Skills III	0.0

Total: 0.0

Medical Professions Prep - Certificate of Competency (Noncredit-Hours only; no units)

Occupational and Noncredit Programs Department

This program is designed to help prepare students who are interested in pursuing a career in healthcare. Each course in this program was designed to assist the new student in areas that have been common areas of weakness (study skills, reading comprehension, medical terminology, medical math, pharmacology, cardiology and fitness and nutrition).

Learning Outcome(s):

1. Discuss current research and clinical evidence supporting BLS and ALS practices and apply evidence-based principles to evaluate the effectiveness of different BLS and ALS assessment and treatment strategies.
2. Apply pharmacological principles to make infomred decisions about medication use and develop effective treatment plans.
3. Create a personalized nutrition and exercise plan.
4. Discuss the anatomy and physiology of heart, identify cardiac emergencies, and interpret basic EKGs.

5. Demonstrate medical math proficiency, and identify and explain proper medication administration techniques and explain the pharmacokinetics and pharmacodynamics of medications.
6. Demonstrate effective reading techniques needed to read a medical text book and create effective study habits based on their identified learning styles.

Notes:
This program includes 4 courses: N MEDC 901, N MEDC 902, N MEDC 903 and N MEDC 997

rogram Requirements   **Units:** 0.0

N MEDC 901	Medical Professions Preparatory Module 1	0.0
N MEDC 902	Medical Professions Preparatory Module 2	0.0
N MEDC 903	Medical Professions Preparatory Module 3	0.0
N MEDC 997	Special Topics in Prehospital Healthcare	0.0

Total: 0.0

Pre-Apprenticeship - Certificate of Competency (Noncredit-Hours only; no units)

Occupational and Noncredit Programs Department

The Pre-Apprenticeship program is designed to prepare students with the skills needed to be successful in the construction industry. Areas that will be addressed have been identified as skills that are needed to increase success rates for passing apprenticeship entrance assessments and to increase graduation rates in apprenticeship programs.

Program Requirements   **Units:** 0.0

N AP PRE 901	Introduction to the Construction Trades Industry	0.0
N AP PRE 902	OSHA 10 Certification	0.0
N AP PRE 903	Red Cross Adult First Aid/CPR/AED	0.0

N AP PRE 906	Essential Skills	0.0
N AP PRE 908	Construction Math	0.0
N AP PRE 909	Blueprint Reading	0.0
N AP PRE 910	Tools	0.0
Select One		0.0
N AP PRE 920	Carpentry - Hands On Skills	0.0
OR		
N AP PRE 930	Electrician - Hands On Skills	0.0

Total: 0.0

OR		
N AP PRE 940	Sheet Metal - Hands On Skills	0.0

Project Management - Certificate of Competency (Noncredit-Hours only; no units)

Occupational and Noncredit Programs Department

This comprehensive program provides students with the essential skills and knowledge needed to excel in project management. The curriculum includes three courses: *Introduction to Project Management*, which covers fundamental principles and techniques; *Intermediate Project Management*, where students apply advanced concepts through hands-on projects; and a *PMP Exam Preparation* course designed to prepare students for the Project Management Professional (PMP) certification exam. Ideal for aspiring project managers or professionals looking to formalize their expertise, this program equips students with the tools to effectively manage projects in various industries.

Learning Outcome(s):

1. Apply core project management principles, such as scope, time, cost, and risk management, to real-world and simulated project scenarios.
2. Apply the Project Management Institute's framework to case studies and projects.
3. Use leadership and collaboration skills when working in groups to manage the project lifecycle, from initiation through closure, while adapting to changing project dynamics.
4. Create and manage comprehensive project plans, including project schedules, budgets, and resource allocation, using industry-standard tools and software.

Required courses:		**Units:** 0.0
N BMGT 986	Introduction to Project Management	0.0
N BMGT 987	Intermediate Project Management	0.0
N BMGT 988	PMP/CAPM Exam Preparation	0.0
		Total: 0.0

Reading Skills for ESL - Certificate of Completion

English as a Second Language Department

This two-course sequence is designed to equip non-native speakers of English with the reading skills and knowledge needed for academic writing and for success in career, associate, or transfer-degree programs. In order to earn a certificate, students must successfully complete both N READ 990 and N ESL 931.

Learning Outcome(s):

1. Identify meanings of texts.
2. Read a variety of texts independently.

Required Courses:		**Units:** 0.0
N READ 990	Reading Improvement	0.0
N ESL 931	Academic Reading for Non-Native Speakers	0.0
		Total: 0.0

Speaking Skills for ESL - Certificate of Completion (Noncredit-Hours only; no units)

English as a Second Language Department

This three-course sequence is designed to equip non-native speakers of English with the academic speaking and pronunciation skills needed to be successful in career, associate, or transfer-degree programs. In order to earn a certificate, students must successfully complete N ESL 920.

Learning Outcome(s):

1. Students will give a well-organized and effective presentation.
2. Students will speak English words and sentences clearly.

Program Requirements		**Units:** 0.0
N ESL 909	English Pronunciation I	0.0
N ESL 910	English Pronunciation II	0.0
N ESL 920	Academic Speaking and Listening	0.0
		Total: 0.0

10 **COURSES**

Credit Courses

Students are held responsible for understanding and fulfilling all requirements presented herein, and for understanding and fulfilling any changes in those requirements which may have occurred since the printing of the catalog. Students are advised to refer to the online catalog for the most current information and to check at the division or department levels for possible curricular changes.

Student Learning Outcomes

Student Learning Outcomes identify the knowledge, skills, abilities and attitudes that students will be able to demonstrate at the end of a course or program of study. Student Learning Outcomes are assessed regularly, and assessment results are used for making improvements to the course, and/or the program, if necessary.

A list of Student Learning Outcomes for Palomar College courses is available at http://www.palomar.edu/slo. The list is updated twice annually.

General Education/Institutional Student Learning Outcomes are also available at http://www.palomar.edu/slo/

Course Numbering System

Palomar College operates on a semester system. The course numbering system has meaning with regard to level and transfer. The college numbering system, effective summer 1990, is as follows:

- 1 – 49: Remedial or college preparatory courses which do not apply toward an Associate degree and which are not intended for transfer to another community college or four-year college or university.
- 50 – 99: Courses which apply toward an Associate degree but which are not intended for transfer to a four-year college or university.
- 100 – 299: Courses which count toward an Associate degree and/or are intended for transfer to a four-year college or university (refer to Transfer Identification below). Freshman-level courses are generally given numbers from
- 100 – 199, and sophomore-level courses are generally given numbers from
- 200 – 299.700 – 799: Apprenticeship courses which may apply toward certificate and Associate degree requirements.
- C1000 - C2999: 100 - 299 level Common Course Numbering compliant. Refer to the CCN section below for more information.

Courses numbered 100 through 299 or C1000 through C2999 are intended as lower division transferable course work. The final decision in regard to transferability rests with the institution to which the credits are transferred. Numbers in parentheses indicate the units granted for a course.

Transfer Identification

Courses at Palomar College which transfer to public four-year universities in California are identified at the beginning of each course description with the abbreviation
CSU and/or UC.
The notation CSU means the course will transfer to the 23 campuses of the California State University system.
The notation UC means the course will transfer to the 10 campuses of the University of California system.

Course Identification Numbering System (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different California community colleges. However, students should always go to www.assist.org to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one California community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

Common Course Numbering System (CCN)

The Common Course Numbering (CCN) System is a state-mandated initiative to standardize and ensure course uniformity for the most common transfer courses across all California Community Colleges. Palomar's CCN courses have standardized course numbers, titles, descriptions, content, and outcomes in common with other California community colleges.

Things to know:

- Not all transfer course offerings are affected by the CCN initiative.
- The number of courses aligned with the CCN initiative will continue to grow.
- Starting Fall 2025, Palomar College will begin using the CCN system for the selected courses shown below. This new numbering convention will use the following structure:

  ◦ Subject: Four letter abbreviation (e.g., ENGL for English).
  ◦ Course Type Identifier: C= Common Course Number
  ◦ Course Number: Standardized 4-digit course identification

- Contact the Counseling Office to understand how CCN courses can be added to your academic plan.

Example : **ENGL C1000 Academic Reading and Writing** will be essentially the same course across all California Community Colleges and will be treated for transfer in the same manner by our transfer partners.

Palomar Common Course List

E = Classes include and embeded lab-based support component

OLD: Palomar Course Numering	NEW: Common Course Numbering
SPCH 100 Oral Communication	COMM C1000 Introduction to Public Speaking
ENG 100 English Composition	ENGL C1000 Academic Reading and Writing
ENG 100E English Composition Enhanced	ENGL C1000E Academic Reading and Writing
ENG 202 Critical Thinking and Composition	ENGL C1001 Critical Thinking and Writing
POSC 101 Introduction to Politics and American Political Institutions + POSC 102 Introduction to United States and California Governments	POLS C1000 Introduction to Psychology
PSYC 100 Introduction to Psychology	PSYC C1000 Introduction to Psychology
MATH 120 Elementary Statistics	STAT C1000 Introduction to Statistics
MATH 120E Elementary Statistics Enhanced	STAT C1000E Introduction to Statistics

Common Course Numbering List Effective Fall 2025

Noncredit Courses

Noncredit instruction is one of several educational options offered within the California Community College System. It offers students access to a variety of low and no cost courses including a focus on elementary and secondary basic skills, English as a second language, citizenship and workforce preparation, programs for adults with disabilities, short-term career technical education (CTE), parenting, older adult needs, health and safety, and home economics.

The State has defined the following specific five categories for funding: Elementary and Secondary Basic Skills, English as a Second Language, Immigrant Education, Education Programs for Persons with Substantial Disabilities, and Health and Safety Education.

Although some classes are tailored for a specific student constituency, all classes are open to the public. No enrollment fees are charged for the noncredit classes. Students who take noncredit classes on the San Marcos campus or at the Escondido Education Center will be required to pay health fees and parking fees.

C-ID Courses

C-ID #	Palomar Course	Palomar Course Title	C-ID #	Palomar Course	Palomar Course Title
ACCT 110	ACCT 201	Financial Accounting	ANTH 115 L	ANTH 100L	Biological Anthropology Laboratory
ACCT 120	ACCT 202	Managerial Accounting	ANTH 115 L	ANTH 101	Introduction to Biological Anthropology
AJ 110	AJ 100	Introduction to Criminal Justice			
AJ 120	AJ 104	Criminal Law	ANTH 120	ANTH 105	Introduction to Cultural Anthropology
AJ 122	AJ 102	Criminal Procedures	ANTH 130	ANTH 107	Language and Culture
AJ 124	AJ 101	Criminal Evidence	ANTH 150	ANTH 110	Introduction to Archaeology
AJ 140	AJ 110	Basic Criminal Investigation	ARTH 110	ART 165	History of Art I: Survey of Western Art
AJ 150	AJ 210	Basic Crime Scene Forensic Science	ARTH 120	ART 166	History of Art II - Survey of Western Art
AJ 160	AJ 103	Community Relations	ARTH 130	ART 163	Arts of Asia
AJ 220	AJ 131	Juvenile Justice	ARTH 140	ART 164	Arts of Africa, Oceania and the Americas
ANTH 110	ANTH 100	Introduction to Biological Anthropology	ARTH 150	ART 169	Survey of Modern Art
ANTH 110	ANTH 101	Introduction to Biological Anthropology	ARTS 100	ART 104	Design and Composition

C-ID #	Palomar Course	Palomar Course Title	C-ID #	Palomar Course	Palomar Course Title
ARTS 101	ART 105	Three-Dimensional Form and Design	COMM 180	SPCH 120	Human Communication
ARTS 110	ART 102	Foundations of Drawing	COMP 122	CSCI 112	Programming Fundamentals I
ARTS 200	ART 120	Foundations of Life Drawing	COMP 132	CSCI 210	Data Structures
ARTS 205	ART 103	Intermediate Drawing	COMP 142	CSCI 212	Machine Organization and Assembly Language
ARTS 210	ART 220	Introduction to Painting	COMP 152	MATH 245	Discrete Mathematics
ARTS 270	ART 200	Color Theory	DENA 100 X	DA 65	Dental Practice Management
BIOL 110 B	ZOO 200	Anatomy	DMGR 120 X	JOUR 200	Mastering Social Media
BIOL 110 B	BIOL 210	Anatomy	ECE 120	CHDV 101	Principles and Practices of Teaching Young Children
BIOL 120 B	ZOO 203	Physiology	ECE 130	CHDV 185	Introduction to Curriculum
BIOL 120 B	BIOL 211	Physiology	ECE 200	CHDV 105	Observation and Assessment
BIOL 140	BIOL 201	Foundations of Biology II	ECE 200	CHDV 105A + 105	Observation, Assessment, and Participation Lab: Preschool + Observation and Assessment
BIOL 190	BIOL 200	Foundations of Biology I			
BUS 110	BUS 100	Introduction to Business	ECE 200	CHDV 105C + 105	Observation, Assessment, and Participation Lab: Early Inclusion + Observation and Assessment
BUS 115	BUS 205	Business Communication			
BUS 120	BUS 117	Legal Environment of Business	ECE 200	CHDV 105B + 105	Observation, Assessment, and Participation Lab: Infant/Toddler + Observation and Assessment
BUS 140	BUS 104	Business Information Systems			
CDEV 100	CHDV 100	Child Growth and Development	ECE 210	CHDV 201	Practicum in Early Childhood Education
CDEV 110	CHDV 115	Child, Family and Community	ECE 220	CHDV 120	Health, Safety, and Nutrition
CHEM 110	CHEM 110 + 110L	General Chemistry + General Chemistry Laboratory	ECE 230	CHDV 172	Teaching in a Diverse Society
CHEM 120 S	CHEM 110 + 110L + 115 + 115L	General Chemistry + General Chemistry Laboratory	ECON 201	ECON 102	Principles of Economics (Micro)
			ECON 202	ECON 101	Principles of Economics (Macro)
CHEM 150	CHEM 220	Organic Chemistry	ENGL 100	ENG 100	English Composition
CHEM 160 S	CHEM 220 + 221	Organic Chemistry + Organic Chemistry	ENGL 100	ENGL C1000	Academic Reading and Writing
COMM 110	COMM C1000	Introduction to Public Speaking	ENGL 100	ENGL C1000E	Academic Reading and Writing
COMM 110	SPCH 100	Oral Communication	ENGL 100	ESL 110	College Composition for Non-Native Speakers
COMM 120	SPCH 105	Beginning Argumentation and Debate			
COMM 130	SPCH 115	Interpersonal Communication	ENGL 105	ENGL C1001	Critical Thinking and Writing
COMM 150	SPCH 131	Intercultural Communication			
COMM 160 B	SPCH 290	Competitive Intercollegiate Forensics	ENGL 105	ENG 202	Critical Thinking and Composition
COMM 170	SPCH 125	Beginning Oral Interpretation	ENGL 110	ENG 203	Critical Thinking and Composition through Literature
COMM 170	TA 125	Beginning Oral Interpretation			

C-ID #	Palomar Course	Palomar Course Title	C-ID #	Palomar Course	Palomar Course Title
ENGL 120	ENG 205	Introduction to Literature	HIST 130	HIST 101	History of the United States Through Reconstruction
ENGL 130	ENG 225	Literature of the United States I	HIST 140	HIST 102	History of the United States Since Reconstruction
ENGL 135	ENG 226	Literature of the United States II	HIST 140	AS 102	African-American History II
ENGL 140	ENG 220	Survey of World Literature I	HIST 150	HIST 107	World History To 1650
ENGL 145	ENG 221	Survey of World Literature II	HIST 160	HIST 108	World History Since 1650
ENGL 160	ENG 210	Survey of British Literature I	HIST 170	HIST 105	History of Europe through the Reformation
ENGL 165	ENG 211	Survey of British Literature II	HIST 180	HIST 106	History of Europe Since the Reformation
ENGL 200	ENG 135	Introduction to Creative Writing	ITIS 110	CSNT 110	Hardware and O.S. Fundamentals
FIRE 100 X	FIRE 100	Fire Protection Organization	ITIS 120	CSIT 105	Computer Concepts and Applications
FIRE 110 X	FIRE 118	Fire Prevention Technology	ITIS 120	CSIT 125	Computer Information Systems
FIRE 120 X	FIRE 130	Fire Protection Equipment and Systems	ITIS 130	CSIT 145	Introduction to Programming Using Java
FIRE 130 X	FIRE 120	Building Construction for Fire Protection	ITIS 150	CSNT 111	Networking Fundamentals
FIRE 240 X	FIRE 171E	Company Officer 2E/Wildland Incident Operations	ITIS 155	CSNT 122	Windows Systems Administration
FIRE 250 X	FIRE 172A	Instructor 1 / Instructional Methodology	ITIS 160	CSNT 181	Hacker Prevention/Security
FIRE 251 X	FIRE 142	Fire Ethics	ITIS 180	CSIT 160	Oracle Database Management Systems
GEOG 110	GEOG 100	Earth's Dynamic Environment: Introduction to Physical Geography	JOUR 100	COMM 100	Introduction to Mass Communication
GEOG 111	GEOG 100L	Earth's Dynamic Environment: Physical Geography Lab	JOUR 110	JOUR 101	Multimedia Writing and Reporting
GEOG 120	GEOG 105	People and the Environment: Introduction to Human Geography	JOUR 120	JOUR 130	Blogging
GEOG 125	GEOG 103	World Regional Geography	JOUR 130	JOUR 105	Multimedia News Writing and Production
GEOG 130	GEOG 110	Meteorology: Weather and Climate	JOUR 150	COMM 104	Introduction to Public Relations
GEOG 140	GEOG 125	California Geography	JOUR 160	JOUR 140	Photojournalism
GEOG 155	GEOG 120	Digital Earth: Introduction to Geographic Information Systems	JOUR 160	PHOT 140	Photojournalism
GEOG 160	GEOG 195	Regional Field Studies in Geography	JOUR 210	JOUR 205	Intermediate Multimedia News Writing and Production
GEOL 100	GEOL 100	Physical Geology	KIN 100	KINE 100	Introduction to Kinesiology
GEOL 100 L	GEOL 100L	Geology Laboratory	KIN 101	EME 100	Emergency Medical Responder
GEOL 110	GEOL 150	Dinosaurs and Earth History	KIN 101	HE 104	First Responder
GEOL 110 L	GEOL 150L	Dinosaurs and Earth History Laboratory	LPPS 110	POSC 121	Introduction to Law
GEOL 120	ES 100	The Earth as a System: Case Studies of Change in Space and Time	LPPS 110	LS 121	Introduction to Law
			LPPS 120	LS 145	Legal Ethics
GEOL 120 L	ES 100L	Earth Systems Laboratory	MATH 110	MATH 120	Elementary Statistics

C-ID #	Palomar Course	Palomar Course Title	C-ID #	Palomar Course	Palomar Course Title
MATH 110	SOC 205	Statistics for the Behavioral Sciences	MUS 180	MUS 155	Chamber Ensemble - Brass
MATH 110	PSYC 205	Statistics for the Behavioral Sciences	MUS 180	MUS 151	Concert Band
MATH 110	BUS 204	Quantitative Business Analysis	NUTR 110	NUTR 185	Science of Human Nutrition
MATH 110	SOC 180	Social Justice Statistics	NUTR 120	NUTR 190	Scientific Principles of Food Preparation
MATH 110	STAT C1000	Introduction to Statistics	PHIL 100	PHIL 111	Introduction to Philosophy
MATH 110	STAT C1000E	Introduction to Statistics	PHIL 110	PHIL 116	Introduction to Logic
			PHIL 120	PHIL 121	Introduction to Ethics
MATH 140	MATH 130	Calculus for Business and the Social Sciences	PHIL 130	PHIL 140	History of Ancient Philosophy
MATH 151	MATH 110	College Algebra	PHIL 140	PHIL 141	History of Modern Philosophy
MATH 211	MATH 140	Calculus with Analytic Geometry, First Course	PHIL 210	PHIL 201	Symbolic Logic
MATH 221	MATH 141	Calculus with Analytic Geometry, Second Course	PHYS 100 S	PHYS 120 + 121	General Physics + General Physics
MATH 230	MATH 205	Calculus with Analytic Geometry, Third Course	PHYS 100 S	PHYS 200 + 201	Fundamentals of Physics + Fundamentals of Physics
MATH 240	MATH 206	Calculus with Differential Equations	PHYS 105	PHYS 120	General Physics
MATH 250	MATH 200	Introduction to Linear Algebra	PHYS 105	PHYS 200	Fundamentals of Physics
MUS 100	MUS 100	Music Appreciation	PHYS 110	PHYS 121	General Physics
MUS 120	MUS 105	Music Theory I	PHYS 110	PHYS 201	Fundamentals of Physics
MUS 125	MUS 110	Music Skills I	PHYS 200 S	PHYS 230 + 231 + 232	Principles of Physics + Principles of Physics + Principles of Physics
MUS 130	MUS 106	Music Theory II	PHYS 205	PHYS 230	Principles of Physics
MUS 135	MUS 111	Music Skills II	PHYS 210	PHYS 231	Principles of Physics
MUS 140	MUS 210	Advanced Harmony	PHYS 215	PHYS 232	Principles of Physics
MUS 145	MUS 215	Music Skills III	POLS 110	POSC 101 + POSC 102	Introduction to Politics and American Political Institutions + Introduction to United States and California Governments
MUS 150	MUS 211	Counterpoint			
MUS 155	MUS 216	Music Skills IV			
MUS 160	MUS 220	Applied Music	POLS 110	POLS C1000	American Government and Politics
MUS 180	MUS 152	Jazz Ensemble	POLS 130	POSC 103	Introduction to Comparative Politics
MUS 180	MUS 148	Palomar Chorale	POLS 140	POSC 110	Introduction to World Politics
MUS 180	MUS 184	Electronic Ensemble	POLS 150	POSC 100	Introduction to Political Science
MUS 180	MUS 157	Guitar Ensembles	PSY 110	PSYC 100	Introduction to Psychology
MUS 180	MUS 149	Spectrum Pop/Jazz Singers	PSY 110	PSYC C1000	Introduction to Psychology
MUS 180	MUS 172	Repertory Jazz Ensemble			
MUS 180	MUS 198	Palomar Symphony Orchestra	PSY 115	PSYC 115	The Psychology of Personal Growth and Development
MUS 180	MUS 158	Chamber Singers			

C-ID #	Palomar Course	Palomar Course Title	C-ID #	Palomar Course	Palomar Course Title
PSY 120	PSYC 225	Psychology of Abnormal Behavior	SPAN 100	SPAN 101	Spanish I
PSY 130	PSYC 125	Human Sexuality	SPAN 110	SPAN 102	Spanish II
PSY 130	SOC 125	Human Sexuality	SPAN 200	SPAN 201	Spanish III
PSY 150	PSYC 210	Physiological Psychology	SPAN 210	SPAN 202	Spanish IV
PSY 170	PSYC 120	Social Psycology	SPAN 220	SPAN 211	Spanish for Heritage Speakers I
PSY 180	PSYC 110	Developmental Psychology-Child Through Adult	SPAN 230	SPAN 212	Spanish for Heritage Speakers II
PSY 205 B	PSYC 230	Research Methods in Psychology	THTR 111	TA 100	Introduction to the Theatre
SJS 110	SOC 170	Introduction to Justice Studies	THTR 113	TA 140	History of the Theater From Ancient Greece Through the 17th Century
SJS 120	SOC 115	Introduction to Women's Studies	THTR 114	TA 150	Dramatic Literature and Script Analysis
SJS 130	SOC 175	Introduction to LBGTQI Studies	THTR 151	TA 115	Acting I
SOCI 110	SOC 100	Introduction to Sociology	THTR 152	TA 116	Acting II
SOCI 115	SOC 110	Social Problems	THTR 172	TA 108	Stagecraft and Scene Design for Theatre and Television
SOCI 120	SOC 210	Research Methods for Sociology	THTR 173	TA 107	Lighting for Stage and Television
SOCI 125	SOC 205	Statistics for the Behavioral Sciences	THTR 174	TA 106	Fundamentals of Costume Design
SOCI 125	PSYC 205	Statistics for the Behavioral Sciences	THTR 175	TA 109	Introduction to Stage Makeup
SOCI 125	SOC 180	Social Justice Statistics	THTR 175	FASH 109	Introduction to Stage Makeup
SOCI 130	SOC 105	Marriage, Family, and Intimate Relationships	THTR 191	TA 191A	Rehearsal and Performance I
SOCI 130	PSYC 105	Marriage, Family, and Intimate Relationships	THTR 191	TA 191C	Rehearsal and Performance III
			THTR 191	TA 191D	Rehearsal and Performance IV
SOCI 140	SOC 135	Gender and Society	THTR 191	TA 191B	Rehearsal and Performance II
SOCI 150	SOC 200	Race, Class, and Ethnic Groups in America	THTR 192	TA 192A	Technical Theatre in Production I
SOCI 150	AMS 200	Race, Class, and Ethnic Groups in America	THTR 192	TA 192B	Technical Theatre in Production 2
			THTR 192	TA 192C	Technical Theatre in Production 3
SOCI 150	MCS 200	Race, Class, and Ethnic Groups in America	THTR 192	TA 192D	Technical Theatre in Production 4

AAS-Asian American Studies

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AAS 100 Introduction to Asian American Studies (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course provides an introduction to the historical formation of Asian America as well as contemporary issues faced by the highly diverse communities that comprise it. As demanded by the interdisciplinary nature of the field of Asian American Studies, this course relies on a range of historical, literary, ethnographic, and visual texts and makes comparisons with other racialized groups in the United States. Topics include issues of race, class, gender, and sexuality, immigration, migration, citizenship, labor, racialization, exclusion, political activism and social movements, family, community-building, war, imperialism, sovereignty, colonialism, transnationalism, culture, and creative expressions.

AB-Auto Body

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AB 50 Auto Body Repair I (3.00)
1.50 hours lecture - 4.50 hours lab
Grading: Grade/Pass/No Pass
Automotive body work with emphasis on repair. Includes welding; working with small damage points; restoring contour of body panels and sections; and realigning bumpers, fenders, doors, and hoods.

AB 51 Auto Body Repair II (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: AB 50
Grading: Grade/Pass/No Pass
Automotive body work with emphasis on increasing diagnostic, estimating and repair skills and updating techniques and related technologies. Introduction to collision industry standards including I-CAR and ASE.

AB 55 Auto Refinishing I (3.00)
1.50 hours lecture - 4.50 hours lab
Grading: Grade/Pass/No Pass
Introduction to auto refinishing. Preparation of auto surfaces for refinishing: taping, cleaning, and sanding. Refinishing auto surfaces: sanding; application of primers, and paint.

AB 56 Auto Refinishing II (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: AB 55
Grading: Grade/Pass/No Pass
Skill development in automotive refinishing techniques, including base-coat, clear-coat application; color matching concepts; and identification, prevention and correction of painting problems. New products, techniques, and trends will be covered.

AB 97 Auto Body Repair/Auto Refinishing Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Grading: Grade/Pass/No Pass
Topics in auto body repair and auto refinishing. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

AB 105 Chassis Restoration and Assembly (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: AT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Covers basic disassembly and documentation of antique automotive chassis and components. Lab activities will focus on correct detailing and reassembly of vintage automobile chassis and related undercarriage elements.

AB 110 Body Restoration and Assembly (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: AB 50
Transferability: CSU
Grading: Grade/Pass/No Pass
Covers basic disassembly and documentation of antique automotive bodies and components. Lab activities will focus on correct detailing, restoration and reassembly of vintage automobiles and related elements, using historically authentic materials and techniques.

ACCT-Accounting

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ACCT 101 Bookkeeping (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Comprehensive coverage of the basic bookkeeping cycle, including journalizing, posting, worksheet and financial statements. Designed to give practical preparation for bookkeeping positions.

ACCT 104 Accounting Spreadsheet Concepts (2.00)
2.00 hours lecture
Prerequisite: (Completion of, or concurrent enrollment in):
ACCT 101, or ACCT 201
Transferability: CSU
Grading: Grade/Pass/No Pass
Application of fundamental and some intermediate spreadsheet concepts, principles, and commands in working with templates and modeling problems in accounting principles.

ACCT 105 Individual Income Taxes (4.00)
4.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Tax planning and preparation topics for individuals including filing status, exemptions, income and exclusions, business expenses, itemized deductions, credits, capital gains, depreciation, tax payments, California Personal Income Tax.

ACCT 107 Taxation of Business Entities (4.00)
4.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Taxation from a business entities approach including business deductions, losses, property transactions, and tax credits. Topics will include rules related to corporations, partnerships and S corporations.

ACCT 110 Quickbooks (2.00)
1.00 hours lecture - 3.00 hours lab
Prerequisite: ACCT 201, or ACCT 101
Transferability: CSU
Grading: Grade/Pass/No Pass
Applying the computer in the study of accounting principles with emphasis on planning and analysis. Students prepare data and enter accounting transactions which are used as input for QuickBooks Pro in order to yield the various accounting statements as output.

ACCT 115 Sales Tax, Payroll Taxes, and Employee Benefits (2.00)

2.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides a knowledgeable background in all phases and aspects of sales tax and payroll accounting. Surveys the various tax procedures required by the employer and employee in filing the correct forms for social security, and federal and state income tax returns. Worker's compensation and state disability benefits will be discussed, as well as pensions, health plans, vacation and sick leave, and other employee benefits.

ACCT 201 Financial Accounting (4.00)
4.00 hours lecture
Transferability: UC/CSU
Grading: Graded Only
CID-C-ID ACCT 110
This is the study of accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. The course covers the accounting information system, including recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the financial statements, and statement analysis. Includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, and ethics.

ACCT 202 Managerial Accounting (4.00)
4.00 hours lecture
Prerequisite: ACCT 201
Transferability: UC/CSU
Grading: Graded Only
CID-C-ID ACCT 120
This is the study of how managers use accounting information in decision-making, planning, directing operations, and controlling. Focuses on cost terms and concepts, cost behavior, cost structure and cost-volume-profit analysis in manufacturing and service environments.

ACR-Air Conditioning/Heating/Refrigeration

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ACR 101 Air Conditioning, Heating, and Refrigeration:
Mechanical (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Graded Only
Introduction to basic mechanical theory of air conditioning, heating and refrigeration. Application of principles and techniques to include system components and their interrelated functions, safety procedures, tools, and equipment.

ACR 102 Air Conditioning, Heating, and Refrigeration:
Electrical (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Graded Only
Introduction to the fundamentals and application of electrical theory as related to air conditioning, heating and refrigeration. Study of basic electrical theory, alternating current, electrical controls, motors, schematics, and electrical meters.

ACR 103 Air Conditioning, Heating, and Refrigeration: Heating (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: ACR 101; ACR 102
Transferability: CSU
Grading: Graded Only
Applied theory and principles used for the different types of heating systems for personal comfort and general purpose heating. Course topics include gas, electrical, solar, reverse refrigeration cycle heat pumps. Theory and application of dual fuel heating systems and oil heat. Course will prepare students to use proper tools and test equipment to install, trouble shoot, evaluate and perform appropriate corrective action and repairs.

ACR 105 Refrigerant Management and Recovery (1.00)
0.50 hours lecture - 1.50 hours lab
Transferability: CSU
Grading: Graded Only
History, theory and understanding of the United States Environmental Protection Agency regulations as set forth under Section 608 of the Clean Air Act of 1990, which described requirements for recycling ozone-depleting refrigerants. Preparation to take the EPA certification exam.

ACR 110 Advanced Air Conditioning, Heating and Refrigeration (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ACR 101 and ACR 102
Transferability: CSU
Grading: Graded Only
Theory, advanced principles and techniques of air conditioning and refrigeration. EPA regulations and safety requirements; complex control systems; chilled water systems, associated pumps and piping; and the installation, troubleshooting, repair, and maintenance of residential and small commercial units.

ACR 112 HVAC Controls and Automation (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: ACR 101; **Prerequisite:** ACR 102
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to applied theory, principles, techniques and history used in Building Automation to monitor and control Heating, Ventilation and Air Conditioning (HVAC) systems to maintain personnel comfort, Indoor Air Quality (IAQ) and system efficiency. Course topics include Direct Digital Controls (DDC), programmable controllers, configurable controllers, multi-zone systems, communication protocols, control system monitoring and economizers to reduce energy usage.

ACS-Athletics and Competitive Sports

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ACS 50 Introduction to Collegiate Athletics (1.00)
1.00 hours lecture
Grading: Grade/Pass/No Pass
Program for matriculation, eligibility rules, exploring and identifying major emphasis of study, academic success skills, educational planning as it relates to transfer as a student athlete.

ACS 55 Cheerleading (1.00-2.00)
3.00-6.00 hours lab
Note: May be taken up to 4 times for up to 8.00 total units
Grading: Grade/Pass/No Pass
Designed to teach the fundamentals of cheerleading. Explores practical and theoretical aspects of competitive and non-competitive cheerleading. Students will acquire knowledge of, and respect for, the skills needed to perform at college events and competition.

ACS 101 Intercollegiate Softball (3.00)
9.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 3 times for up to 9.00 total units
Grading: Grade/Pass/No Pass
Provides women with the opportunity to develop advanced skills and strategies in intercollegiate softball which will be applied to competitive situations.

ACS 110A Intercollegiate Basketball (1.50-2.00)
4.50-6.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 3 times for up to 6.00 total units
Grading: Grade/Pass/No Pass
Develop advanced skills and strategies in preseason intercollegiate basketball, which will be applied to competitive situations.

ACS 110B Intercollegiate Basketball (1.50-2.00)
4.50-6.00 hours lab
Transferability: CSU
Note: May be taken up to 3 times for up to 6.00 total units
Grading: Grade/Pass/No Pass
Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate basketball, which will be applied to in-season competitive situations.

ACS 125 Intercollegiate Soccer (3.00)
9.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 3 times for up to 9.00 total units
Grading: Grade/Pass/No Pass
Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate soccer which will be applied to competitive situations.

ACS 130 Intercollegiate Volleyball (3.00)
9.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 3 times for up to 9.00 total units
Grading: Grade/Pass/No Pass
Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate volleyball which will be applied to competitive situations.

ACS 135 Intercollegiate Swimming and Diving (3.00)
9.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 3 times for up to 9.00 total units
Grading: Grade/Pass/No Pass
This course provides men and women with the opportunity to develop advanced skills and the strategies in intercollegiate swim/diving which will be applied to competitive situations.

ACS 140 Intercollegiate Water Polo (3.00)
9.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 3 times for up to 9.00 total units
Grading: Grade/Pass/No Pass
Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate water polo which will be applied to competitive situations.

ACS 145 Intercollegiate Football (3.00)
9.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 3 times for up to 9.00 total units
Grading: Grade/Pass/No Pass
Provides students with the opportunity to develop advanced skills and strategies in intercollegiate football which will be applied to competitive situations.

ACS 150 Intercollegiate Wrestling (3.00)
9.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 3 times for up to 9.00 total units
Grading: Grade/Pass/No Pass
Provides students with the opportunity to develop advanced skills and strategies in intercollegiate wrestling which will be applied to competitive situations.

ACS 155 Intercollegiate Baseball (3.00)
9.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 3 times for up to 9.00 total units
Grading: Grade/Pass/No Pass
Provides students with the opportunity to develop advanced skills and strategies in intercollegiate baseball which will be applied to competitive situations.

ACS 165 Intercollegiate Track and Field (3.00)
9.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 3 times for up to 9.00 total units
Grading: Grade/Pass/No Pass
This course provides students with the opportunity to develop advanced skills and the strategies in intercollegiate track and field which will be applied to competitive situations.

ACS 180 Intercollegiate Sand Volleyball (3.00)
9.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 3 times for up to 9.00 total units
Grading: Grade/Pass/No Pass
Provides women with the opportunity to develop advanced skills and strategies in intercollegiate sand volleyball which will be applied to competitive situations.

ACS 197 Topics in Athletics and Competitive Sports (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 2 times for up to 8.00 total units
Grading: Grade/Pass/No Pass
Topics in Athletics and Competitive Sports. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. May be transferable to UC upon UC's review of the course syllabus.

AIS-American Indian Studies

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AIS 100 Introduction to American Indian Studies (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
American Indian cultures in North America are studied from early cultures to contemporary society. A cross-disciplinary approach examines applicable methods and theories that inform the distinct cultural and political organization, analyze and articulate concepts such as race, ethnicity, equity, ethnocentrism, self-determination, liberation, and settler colonialism by applying theory and knowledge produced by Native Americans.

AIS 101 History of American Indian Nations from Creation through the Present (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course focuses on the historical, economic, and cultural development of American Indian Peoples-Nations in the Americas, especially in relationship to the United States. Emphasis is upon ancient, imperial, colonial and contemporary relationships including the historical themes of sovereignty, treaty-making, constitutional development, frontiers and the reservation era, race, resistance, revitalization, ethnogenesis, assimilation, decolonization and resilience of American Indian Nations histories, sources, traditions, identities and communities.

AIS 102 The American Indian and the U.S. Political System (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Surveys the role of Native nations in the United States and state political systems and institutions. Includes an examination of tribal nations' government political structures and functions from pre-contact through settler colonialism to contemporary times, as well as analysis of Federal Indian Policy and leading issues such as, but not limited to, sovereignty, tribal citizenship, and identity that affect American Indian people and Native nations.

AIS 104 The Music of Native America (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Surveys both the traditional and contemporary Native American musical styles with an emphasis on North America. The impacts of Western influence are examined through the socio-cultural context of Native music.

AIS 105 History of Native American Arts (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An historical survey encompassing North, Meso, and South American Indian arts from pre-Columbian through contemporary periods. American Indian art forms are examined in terms of cultural context, history of styles, and artists.

AIS 107A Elementary Luiseno IA (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This elementary level course is a study of the fundamentals of the Luiseno language, one of the four indigenous languages of San Diego County. This course will include a survey of Luiseno language phonology, morphology, syntax and grammar with special emphasis on culturally relevant terminology.

AIS 107B Elementary Luiseno IB (3.00)
3.00 hours lecture
Prerequisite: AIS 107A
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This elementary course is a continuation of AIS 107A and reviews the phonology, morphology, syntax and grammar of the Luiseno Language, with continued emphasis on culturally relevant terminology leading to increased proficiency in expressing basic concepts both orally and in writing.

AIS 108A Elementary Luiseno IIA (3.00)
3.00 hours lecture
Prerequisite: AIS 107B
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is an elementary review of grammar, composition, and continued oral practice.

AIS 108B Elementary Luiseno IIB (3.00)
3.00 hours lecture
Prerequisite: AIS 108A
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This elementary course is a continued review of grammar, composition, and oral practice.

AIS 110 History of the Plains Indian (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An analysis of the Plains Indian. Examines lifestyles, mores, traditions, and tactics of war. Attention will be given to relations with the U.S. Government and to the background and evolution of acculturations.

AIS 115 A History of Southwest Indians (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A history, transculturation, and present culture of the Southwest Indians with emphasis upon their retention of traditional customs.

AIS 121 Pacific Islanders (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to the political, economic, historical, and socio-cultural studies of the indigenous peoples of Pacific Islands. Examines Pacific Islands indigenous history through the pre-colonial period and present events and issues through comparative approaches to traditionalism, colonialism, resistance, regionalism, globalism, diaspora, migration, and sovereignty as related to the formation of Pacific Islander identity.

AIS 125 American Indians Today (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The development of a greater sensitivity to the American Indian through analysis of ethnocentrism and racialization exhibited in contemporary American pluralistic society. This will be done through the analysis of stereotyping, history, cultural practice, and contemporary issues.

AIS 130 Prehistoric Cultures of North America (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: ANTH 130
Emphasis given to prehistoric cultural traditions of the Eastern Woodlands, Central Plains, and Far Western United States and Canada. Special concern for archaeological problems; reconstruction of these traditions and cultural changes.

AIS 135 California Indian Arts (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Emphasis on the regional styles of California tribal arts with analysis of the social, religious, political, and cultural contributions. A combination of lectures, slides, individual projects, small group discussions, field trips, and guest artists.

AIS 140 The Original Californians (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: ANTH 140
Native people of California: their origin, language, arts, customs, religion, folklore, and music. Develops a dynamic comparative grid, focusing on the persistence of tribal identities and evolution of socio-economic changes and cultural practices over time. Special emphasis on Southern California.

AIS 145 American Indian Literature (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A survey of historical and contemporary American Indian literature. Examines traditional and contemporary genres.

AIS 150 American Indian Philosophy and Religion (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The principles of American Indian philosophy and religious rites practiced prior to extensive European contacts with North American tribes, and the subsequent impact of European cultures on American Indian philosophy and religion.

AIS 165 Native Women in the Americas (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Social and psychological comparison of the roles of native women in the Americas. Areas of emphasis shall include: kinship, childbearing, leadership, and religious roles. These will be examined in contemporary and traditional settings.

AIS 166A Elementary Cahuilla IA (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to the fundamentals of the Cahuilla language, one of the four indigenous languages of San Diego County. Includes a survey of Cahuilla language phonology, morphology, syntax and grammar with special emphasis on culturally relevant terminology.

AIS 166B Elementary Cahuilla IB (3.00)
3.00 hours lecture
Prerequisite: AIS 166A
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This elementary course is a continuation of AIS 166A and reviews the phonology, morphology, syntax and grammar of the Cahuilla Language, with continued emphasis on culturally relevant terminology leading to increased proficiency in expressing basic concepts both orally and in writing.

AIS 167A Elementary Cahuilla IIA (3.00)
3.00 hours lecture
Prerequisite: AIS 166B
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The first half of the second year of Elementary Cahuilla. Reviews the phonology, morphology, syntax and grammar of the Cahuilla language, with continued emphasis on culturally relevant terminology to increase proficiency in expressing basic concepts both orally as well as in writing.

AIS 167B Elementary Cahuilla IIB (3.00)
3.00 hours lecture
Prerequisite: AIS 167A
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The second half of the second year of elementary Cahuilla. Reviews the phonology, morphology, syntax and grammar of the Cahuilla Language, with continued emphasis on culturally relevant terminology leading to increased proficiency in expressing basic concepts both orally and in writing.

AIS 180A Uto-Aztecan Languages of San Diego County IA (3.00)

3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This elementary level course is a study of the fundamentals of the Uto-Aztecan language, reflective of the indigenous languages in San Diego County. This course will include a survey of Uto-Aztecan language phonology, morphology, syntax and grammar with emphasis on the development of communicative skills in a cultural context through listening, speaking, reading and writing.

AIS 180B Uto-Aztecan Languages of San Diego County IB (3.00)

3.00 hours lecture
Prerequisite: AIS 180A
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This is a continuation course of the first level and reviews the phonology, morphology, syntax and grammar of the Uto-Aztecan Language, with continued emphasis on the development of communicative skills in a cultural context through listening, speaking, reading and writing in analyzing and utilizing both contemporary as well as culturally relevant terminology leading to increased proficiency in expressing basic concepts both orally and in writing.

AIS 181A Uto-Aztecan Languages of San Diego County IIA (3.00)
3.00 hours lecture
Prerequisite: AIS 180B
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the first half of the second year of Uto-Aztecan. This elementary level course is a study of the Uto-Aztecan language and Uto-Aztecan speaking cultures, with continued emphasis on the development of communicative skills and basic structures.

AIS 181B Uto-Aztecan Langauges of San Diego County IIB (3.00)
3.00 hours lecture
Prerequisite: AIS 181A
Transferability: UC/CSU
Note: May be taken up to 3 times for up to 9.00 total units
Grading: Grade/Pass/No Pass
The last half of the second year of elementary Uto-Aztecan with continued emphasis on the development of communicative skills and basic structures. Continues focus on teaching elementary-level language acquisition in a cultural context through listening, speaking, reading and writing in analyzing and utilizing both contemporary as well as culturally relevant terminology leading to increased proficiency in expressing basic concepts both orally and in writing.

AIS 197 American Indian Studies Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Topics in American Indian Studies. See class schedule for specific topic covered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. May be transferable to UC upon UC's review of the course syllabus.

AIS 207A Luiseno IIIA (3.00)
3.00 hours lecture
Prerequisite: AIS 108B
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This intermediate level course is a study of the Luiseno language and culture(s), focusing on intermediate level culturally relevant authentic materials. Emphasis is on developing listening, oral, reading and writing skills in order to acquire proficiency in Luiseno.

AIS 207B Luiseno IIIB (3.00)
3.00 hours lecture
Prerequisite: AIS 207A
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This intermediate level course is a continuation of the study of the language and culture of the Luiseno people emphasizing oral, listening, and reading skills.

AIS 266A Cahuilla IIIA (3.00)
3.00 hours lecture
Prerequisite: AIS 167B
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The first half of the first year of intermediate Cahuilla language and culture, focusing on intermediate-level culturally relevant authentic materials. Emphasis is on developing listening, oral, reading and writing skills in order to acquire proficiency in Cahuilla.

AIS 266B Cahuilla IIIB (3.00)
3.00 hours lecture
Prerequisite: AIS 266A
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The second half of the first year of intermediate Cahuilla. A continuation of the study of the language and culture of the Cahuilla people, focusing on oral, listening, and reading skills. Culturally relevant authentic materials are incorporated to acquire proficiency in Cahuilla. Largely conducted in Cahuilla.

AIS 282A Uto-Aztecan Languages of San Diego County IIIA (3.00)
3.00 hours lecture
Prerequisite: (Completion of, or concurrent enrollment in): AIS 181B
Transferability: UC/CSU
Note: May be taken up to 3 times for up to 9.00 total units
Grading: Grade/Pass/No Pass
This intermediate level course is a study of the Uto-Aztecan with continued emphasis on the development of communicative skills and basic structures in analyzing and utilizing both contemporary and culturally relevant terminology. Culturally relevant authentic materials are incorporated to acquire proficiency from the Uto-Aztecan languages in San Diego County.

AIS 282B Uto-Aztecan languages of San Diego County IIIB (3.00)
3.00 hours lecture
Prerequisite: (Completion of, or concurrent enrollment in): AIS 282A
Transferability: UC/CSU
Note: May be taken up to 3 times for up to 9.00 total units
Grading: Grade/Pass/No Pass
This intermediate level course is a continuation of the study of Uto-Aztecan with continued emphasis on the development of communicative skills and basic structures in analyzing and utilizing both contemporary and culturally relevant terminology. Culturally relevant authentic materials are incorporated to acquire proficiency from the Uto-Aztecan languages in San Diego County.

AIS 295 Directed Study in American Indian Studies (1.00-3.00)
3.00-9.00 hours lab
Prerequisite: Approval of project or research by instructor or department chairperson.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Independent study for students with demonstrated proficiency in American Indian Studies to engage in self-directed projects or research outside the context of regularly scheduled classes. Studies are supervised by an instructor.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

AJ-Administration of Justice

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AJ 65 Preparation for Law Enforcement (3.00)
3.00 hours lecture
Grading: Pass/No Pass Only
This course will provide an educational overview of the hiring process of law enforcement agencies and prepare the serious candidate for law enforcement employment to successfully complete the pre-employment testing and screening process. It will take the student from the written test all the way through to the oral interview.

AJ 85 Police Academy Preparation (3.00)
3.00 hours lecture - 1.00 hours lab
Prerequisite: Admission to the Police Academy
Grading: Grade/Pass/No Pass
Prepares recruits for the demanding academic and physical requirements of the Police Academy.

AJ 86 Basic Police Academy Module III (7.00)
5.00 hours lecture - 6.00 hours lab
Prerequisite: Admission to the Police Academy
Grading: Graded Only
Equivalent to Module III extended-format training standards as set forth by the CA Commission on Peace Officer Standards and Training (POST). Covers ethics, the criminal justice system, laws of arrest, search and seizure, custody, firearms, arrest and control, first aid/CPR, and other related police topics. Meets the requirements for appointment as a Level III Reserve Officer and satisfies the requirements for PC 832 Arrest and Firearms.

AJ 87A Basic Police Academy Module IIA (5.50)
4.00 hours lecture - 4.50 hours lab
Prerequisite: Admission to the Police Academy; Prior completion of Police Academy Module III
Grading: Graded Only
AJ 87A and 87B are equivalent to Basic Course Module II extended-format training standards as set forth by the Commission on Peace Officer Standards and Training (POST). Covers property crimes, crimes against persons, policing in the community, firearms, chemical agents, and other related police topics. AJ 94A and 94B meet the requirements for appointment as a Level II Reserve Officer.

AJ 87B Basic Police Academy Module IIB (5.50)
4.00 hours lecture - 4.50 hours lab
Prerequisite: Admission to the Police Academy; Prior completion of Police Academy Module III; **Prerequisite: (Completion of, or concurrent enrollment in):** AJ 87A
Grading: Graded Only
AJ 87A and 87B are equivalent to Basic Course Module II extended-format training standards as set forth by the CA Commission on Peace Officer Standards and Training (POST). Covers property crimes, crimes against persons, policing in the community, firearms, chemical agents, and other related police topics. AJ 87A and 88B meet the requirements for appointment as a Level II Reserve Officer.

AJ 88A Basic Police Academy Module IA (5.00)
3.50 hours lecture - 4.50 hours lab
Prerequisite: Admission to the Police Academy; Prior completion of Police Academy Module II
Grading: Graded Only
AJ 88A and 88B are equivalent to the Basic Course Module I extended-format training standards as set forth by the CA Commission on Peace Officer Standards and Training (POST). Covers crimes against children, sex crimes, juvenile law, domestic violence, weapons violations, patrol techniques, and other related police topics. AJ88A and 88B meet the requirements for appointment as a full-time peace officer or Level I Reserve Officer.

AJ 88B Basic Police Academy Module IB (12.00)
8.00 hours lecture - 12.00 hours lab
Prerequisite: Admission to the Police Academy; Prior completion of Police Academy Module II; **Prerequisite: (Completion of, or concurrent enrollment in):** AJ 88A
Grading: Graded Only
AJ 88A and 88B are equivalent to the Basic Course Module I extended-format training standards as set forth by the CA Commission on Peace Officer Standards and Training (POST). Covers crimes against children, sex crimes, juvenile law, domestic violence, weapons violations, patrol techniques, and other related police topics. AJ95A and 95B meet the requirements for appointment as a full-time peace officer or Level I Reserve Officer.

AJ 97 Topics in Administration of Justice (0.50-20.00)
0.50-20.00 hours lecture - 1.50-60.00 hours lab
Grading: Graded Only
Topics in Administration of Justice. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

AJ 100 Introduction To Criminal Justice (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID AJ 110
This course is a journey into the fundamental principles, institutions, and practices that underpin the American criminal justice system. The course provides an in-depth look into the intricacies of law enforcement, courts, and corrections, and explores the evolving role of justice in society. The course will address systemic inequalities within the criminal justice system and strive to engage with these issues through the coursework in a meaningful and respectful manner. Through thoughtful dialogue, critical reflection, and empathetic understanding, the course aims to cultivate a classroom community that celebrates diversity, promotes equity, and advocates for justice.

AJ 101 Criminal Evidence (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
CID-C-ID AJ 124
This course provides a comprehensive exploration of the rules, procedures, and ethical considerations governing the admission and use of evidence in criminal proceedings. The course will navigate through case law, statutes, and real-world scenarios to understand how evidence shapes the pursuit of justice in our changing and diverse society.

AJ 102 Criminal Procedures (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
CID-C-ID AJ 122
This course is designed to break down the intricacies of legal processes within the criminal justice system. Through engaging lectures, case studies, and interactive discussions, students will explore the constitutional principles, statutes, and judicial decisions that govern the investigation, prosecution, and adjudication of criminal cases. Topics covered include search and seizure, arrest and detention, interrogation and confessions, the right to counsel, pre-trial procedures, trial procedures, sentencing, and appellate review. The course emphasizes the importance of recognizing procedural safeguards and due process protections that ensure fairness and justice in the criminal justice system in the United States.

AJ 103 Community and the Justice System (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID AJ 160
This course explores the role of law enforcement and participants in the justice system, focusing on their interrelationships with various agencies and the public. Students will examine the expectations placed on law enforcement by the community and the importance of establishing positive relationships through effective communication and cultural understanding. The course provides an overview of communication skills, emphasizing the interaction between the criminal justice system and a multicultural society. Topics include addressing hate crimes, prejudice, bias, and discrimination, with a focus on fostering diversity, equity, and inclusion within the justice system. By understanding these dynamics, students will gain insights into building trust and cooperation between law enforcement agencies and the communities they serve.

AJ 104 Criminal Law (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID AJ 120
This course explores the historical development, philosophy, and constitutional provisions of law with a focus on criminal law. Students will examine definitions and classifications of crimes, analyze case law, and consider the concepts of law as a social force. Emphasis is placed on understanding the role of law in promoting justice and equity, with a particular focus on how laws have impacted various communities differently. The course will engage students in critical discussions on diversity, inclusion, and accessibility within the criminal justice system, encouraging them to consider the perspectives and experiences of marginalized groups. Through a comprehensive study of legal principles and real-world applications, students will gain a deeper understanding of the legal system's complexities and its implications for a diverse society. This course is essential for anyone pursuing a career in law enforcement, legal studies, or related fields.

AJ 106 Ethics in Administration of Justice (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course is an ethical exploration of the Administration of Justice. This course examines complex ethical considerations that underpin the principles, practices, and decisions within the criminal justice system. Through engaging discussions, case studies, and critical analysis, students will examine ethical dilemmas, professional responsibilities, and moral frameworks that shape the conduct of justice professionals. This course will navigate the complexities of fairness, equity, integrity, and accountability in the pursuit of justice.

AJ 110 Basic Criminal Investigation (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
CID-C-ID AJ 140
This course is designed for aspiring law enforcement professionals, and anyone intrigued by the pursuit of justice. This course provides a foundational understanding of the principles, techniques, and procedures involved in criminal investigation. Through engaging lectures, practical exercises, and case studies, students will explore the various stages of the investigation process, from crime scene management and evidence collection to suspect identification and interrogation. The course will critically examine how investigations impact diverse communities and address potential biases in investigative practices. Students will engage in discussions and activities aimed at fostering inclusive and equitable approaches to criminal investigation. Students will have an opportunity to unravel mysteries, analyze evidence, and sharpen investigative skills to pursue truth and uphold justice.

AJ 131 Juvenile Justice (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
CID-C-ID AJ 220
Explore the unique challenges and complexities of the juvenile justice system in this comprehensive course. Students will examine the historical development, philosophical foundations, and legal framework of juvenile justice in the United States. Through lectures, discussions, and case studies, participants will gain insight into the principles and practices guiding the treatment of juvenile offenders, including diversion programs, rehabilitation efforts, and juvenile court procedures. Additionally, the course will address contemporary issues such as youth gangs, juvenile delinquency prevention, and the impact of social and cultural factors on juvenile crime. This course is essential for students pursuing careers in law enforcement, social work, counseling, or related fields, as well as those interested in understanding the juvenile justice system and its role in shaping the lives of young people.

AJ 141 Enforcement Psychology (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Enforcement Psychology offers an in-depth exploration of the psychological principles underlying law enforcement practices. This course examines how psychological concepts and theories can be applied to various aspects of policing, including decision-making, communication, conflict resolution, and stress management. Students will explore topics such as criminal behavior analysis, interrogation techniques, crisis intervention, and ethical considerations in law enforcement. Through case studies and simulations, students will gain practical insights into the psychological factors influencing both law enforcement officers and the individuals with whom they interact. This course is essential for anyone interested in understanding the intersection of psychology and law enforcement and pursuing a career in criminal justice or related fields.

AJ 151 Introduction to Homeland Security (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to Homeland Security provides students with a comprehensive overview of the concepts, principles, and practices essential for safeguarding the nation against various threats. This course explores homeland security's historical evolution, relevant agencies' organizational structure, and the key strategies and measures employed to address security challenges. Through lectures, discussions, and case studies, students will examine critical issues such as terrorism, natural disasters, cybersecurity, and emergency management. Additionally, the course will cover the role of intelligence gathering and analysis, the coordination of federal, state, and local efforts, and the ethical considerations inherent in homeland security operations. By the end of the course, students will gain a foundational understanding of homeland security and its significance in protecting communities and ensuring national resilience.
Notes:
Introduction to Homeland Security provides students with a comprehensive overview of the concepts, principles, and practices essential for safeguarding the nation against various threats. This course explores the historical evolution of homeland security, the organizational structure of relevant agencies, and the key strategies and measures employed to address security challenges. Through lectures, discussions, and case studies, students will examine critical issues such as terrorism, natural disasters, cybersecurity, and emergency management. Additionally, the course will cover the role of intelligence gathering and analysis, the coordination of federal, state, and local efforts, and the ethical considerations inherent in homeland security operations. By the end of the course, students will gain a foundational understanding of homeland security and its significance in protecting communities and ensuring national resilience.

AJ 152 Emergency Management and Planning for Public Safety Officials (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Emergency Management and Planning is a comprehensive course designed to equip students with the knowledge and skills to effectively prepare for, respond to, and recover from emergencies and disasters. This course explores the principles, practices, and challenges of emergency management within the context of contemporary societal and environmental risks. Through lectures, case studies, and practical exercises, students will learn about the phases of emergency management, including mitigation, preparedness, response, and recovery. Topics covered include risk assessment, hazard identification, emergency response coordination, resource management, and community resilience-building strategies. By the end of the course, students will be equipped to contribute to emergency planning efforts in various organizational and community settings.

AJ 153 Contemporary Issues in Homeland Security (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Contemporary Issues in Homeland Security provides students with an in-depth examination of the current challenges, trends, and debates shaping the field of homeland security. This course explores many pressing issues facing policymakers, law enforcement agencies, and security professionals in today's dynamic and interconnected world. Through lectures, discussions, case studies, and guest speakers, students will analyze domestic terrorism, cybersecurity threats, border security, immigration policies, and emergency response strategies. Additionally, the course will explore the ethical considerations, legal frameworks, and international dimensions of homeland security efforts. By the end of the course, students will gain a nuanced understanding of the complex and evolving landscape of homeland security and the strategies needed to address contemporary threats effectively.

AJ 180 Criminology (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course will be an exploration of the complex field of criminology, investigating the causes, patterns, and consequences of crime and criminal behavior. This course provides a comprehensive overview of criminological theories, research methods, and empirical findings that contribute to our understanding of crime in society. Through engaging lectures, discussions, and case studies, students will examine the social, psychological, and environmental factors that shape criminal conduct and the responses of the criminal justice system. The course navigates the complexities of crime, challenges conventional wisdom, and seeks solutions to create safer and more equitable communities.

AJ 197 Topics In Administration Of Justice (0.50-6.00)
0.50-6.00 hours lecture - 1.50-18.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Administration of Justice. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

AJ 210 Introduction to Crime Scene Forensic Investigation (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
CID-C-ID AJ 150
The Introduction to Crime Scene Forensic Investigation course provides students with an introduction to the fundamental principles and techniques of forensic science as applied to crime scene investigation. Through a combination of lectures, hands-on laboratory exercises, and case studies, students will learn the scientific methods and procedures used to process, analyze, and interpret evidence collected from crime scenes. Topics covered include crime scene documentation, evidence collection and preservation, fingerprint analysis, DNA profiling, bloodstain pattern analysis, and firearm examination. Emphasis will be placed on the role of forensic science in the criminal justice system and the importance of maintaining the integrity of evidence. This course serves as a foundation for students pursuing further studies or careers in forensic science, law enforcement, or related fields.

AMS-American Studies

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AMS 100 American Culture and Identity (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Identity and values, such as the arts, beliefs, and social forms, as expressed in lifestyles. Regional and interdisciplinary approaches will be used to build a dynamic model of American culture and its impact on Americans and the world.

AMS 105 American West: Images and Identities (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The study and exploration of the unique role of the American West in shaping Native American and immigrant cultures is revealed through varied images in visual arts, literature, and music. These images, from deep spiritual metaphors to progressive impulses, influenced American values and dreams that prevail into today's global arena. Students will examine and analyze various primary sources available through archives and virtual exhibits.

AMS 182 Introduction to Arts Management (3.00)
9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: DNCE 182, ART 182, MUS 182, TA 182
An introduction to the principles and practices of arts management through an interdisciplinary study of management topics in the visual and performing arts.

AMS 183 Internship in Arts Management (3.00)
9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: DNCE 183, ART 183, MUS 183, TA 183
Practical experience in arts management in the visual and performing arts.

AMS 200 Race, Class, and Ethnic Groups in America (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: SOC 200, MCS 200
This course is designed to introduce the topics of intergroup relations in general to superordinate-subordinate relations in particular, as exemplified in various racial, ethnic, social class, and cultural groups. Emphasis is primarily on contemporary relations in the United States, although a comparative perspective is also offered.

ANTH-Anthropology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ANTH 100 Introduction to Biological Anthropology (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is an introduction to human biocultural origins, exploring what makes us human. Topics include: the scientific method, principles of evolution, human genetics, human osteology, anthropometrics, forensic anthropology, anatomy and behavior of living nonhuman primates, and paleoanthropology.

ANTH 100L Biological Anthropology Laboratory (1.00)
3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): ANTH 100
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This laboratory course provides an introduction to the methods and techniques used in research in physical/biological anthropology. The topics under study include: the scientific method, principles of evolution, human genetics, human osteology, anthropometrics, forensic anthropology, anatomy and behavior of living nonhuman primates, and paleoanthropology.

ANTH 101 Introduction to Biological Anthropology (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The lecture and laboratory course provides an introduction to the methods and techniques used in research in biological anthropology. The topics under study include: the scientific method, principles of evolution, human genetics, human osteology, anthropometrics, forensic anthropology, anatomy and behavior of living nonhuman primates, and paleoanthropology.

ANTH 103 Bones: Human Osteology (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course provides an introduction to the human skeleton, with hands-on learning about bone biology, growth and development, and variation. Topics of study include: identification of all parts of the skeletal system; how to measure bones; how the skeleton, ligaments, and muscles support modes of locomotion; skeletal differences between male and female; and skeletal differences found in human populations. Non-metric features, stress markers, and how nutrition and disease can affect bones will be examined. This course is designed for Anthropology majors or students interested in biology, forensics, or biological anthropology.

ANTH 105 Introduction to Cultural Anthropology (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to the study of concepts, theories, and methods used in the comparative study of sociocultural systems. The course typically includes subjects such as subsistence patterns, social and political organization, language and communication, family and kinship, religion, the arts, social inequality, ethnicity, gender, culture change and the application of anthropological perspectives to contemporary issues.

ANTH 107 Language and Culture (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to linguistic anthropology, the study of language, culture and society from an anthropological perspective. Topics include the biology of language, anthropological theories of language origin, language structure, the relationship between language and culture, language variation, and nonverbal communication.

ANTH 110 Introduction to Archaeology (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction covering the history, objectives, and methods of archaeology; significant discoveries throughout the old and new worlds, and the history and nature of culture as revealed by archaeology as an anthropological study. Field studies in local areas may be included.

ANTH 115 People and Cultures of the World (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is a survey of the world's diverse peoples and customs in a modern global context. The broad range of human experience is studied through the many diverse worldviews, socio-cultural institutions (e.g. economics, kinship, gender, politics, belief systems, etc.), and ecological settings which are all part of culture. The course explores how people cope with day-to-day challenges in their social and physical environments while comparing and contrasting traditions, transitions, and newly emerging patterns.

ANTH 120 Archaeological Excavation (3.00)
1.00 hours lecture - 6.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Archaeological field techniques to include a minimum of 90 hours of in field experience. Course will include excavation, use of instruments/tools, and preparation of a project analysis or report.

ANTH 121 Applying Archaeology (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Anthropology 121 outlines the many ways archaeology can be applied in different vocational and stewardship positions. This includes discussion of the various job options, training and skills required, as well as finding positions with Cultural Resource Management firms, government agencies, museums, and within academic settings. Emphasis is placed upon regulatory frameworks at the Federal, State, and local level and the roles of archaeologists in various professions.

ANTH 125 Evolution, Science and Religion (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The course focuses on the long-standing debate surrounding biological evolution and various religious views of creation. The evidence and arguments offered for and against evolution and creationist world views are examined in the context of science and the scientific method, the influence of cultural and personal values, the nature and use of evidence, and the difference between knowledge and belief.

ANTH 126 Cultures of Africa (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to the indigenous peoples and cultures of Africa. Brief prehistoric and historic background of the continent. Comparative study of traditional cultures representative of the continent's diversity. Focus on social, economic, political, religious and aesthetic life, and culture change.

ANTH 130 Prehistoric Cultures of North America (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: AIS 130
Emphasis given to prehistoric cultural traditions of the Eastern Woodlands, Central Plains, and Far Western United States and Canada. Special concern for archaeological problems; reconstruction of these traditions and cultural changes.

ANTH 135 Magic, Witchcraft, and Religion (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is a cross-cultural survey of religious beliefs and practices with an emphasis on small-scale societies. Topics include but are not limited to rituals, myths, shamanism, altered states of consciousness, healing, magic, divination, witchcraft, death, new religious movements, and globalization.

ANTH 137 Medical Anthropology: Culture, Illness and Healing (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is a cross-cultural survey of health, illness and healing in small-scale societies as well as modern societies from a cultural, biological, and ecological perspective. Topics covered include perceptions of the body, perceptions of disease, life phases, culture-specific syndromes, healing practices, healers, nutrition, and healing and medical systems.

ANTH 140 The Original Californians (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: AIS 140
Native people of California: their origin, language, arts, customs, religion, folklore, and music. Develops a dynamic comparative grid, focusing on the persistence of tribal identities and evolution of socio-economic changes and cultural practices over time. Special emphasis on Southern California.

ANTH 155 Ancient Civilizations of Meso-America (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: CS 155
Civilizations of Pre-Columbian Mexico and Central America with a focus on their origins and achievements.

ANTH 197 Topics in Archaeology (1.00-3.00)
3.00-9.00 hours lab
Transferability: CSU
Grading: Graded Only
Topics in Archaeological Research. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

ANTH 205 Prehistoric Archaeological Excavation (3.00)
1.00 hours lecture - 6.00 hours lab
Recommended Preparation: ANTH 120
Transferability: CSU
Grading: Grade/Pass/No Pass
Training in excavating prehistoric archaeological features. Specialized field techniques for prehistoric archaeology. Archaeological theory as it applies to site interpretation.

ANTH 206 Historical Archaeological Excavation (3.00)
1.00 hours lecture - 6.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Training in excavating historic archaeological features. Specialized field techniques in historical archaeology. Archaeological theory as it applies to historic site interpretation.

ANTH 210 Archaeological Surveying (3.00)
2.50 hours lecture - 1.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Archaeological surveying techniques including field reconnaissance, use of topographical maps, site recording, and preparation of a project analysis or report.

ANTH 215 Archaeological Laboratory Analysis (3.00)
2.50 hours lecture - 1.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Training in the laboratory analysis of stone, ceramic, bone, and other artifacts as well as elementary archaeological theory, statistics, and report preparation.

ANTH 220 Advanced Archaeological Surveying (3.00)
2.50 hours lecture - 1.50 hours lab
Recommended Preparation: ANTH 210
Transferability: CSU
Grading: Grade/Pass/No Pass
Advanced archaeological survey techniques including sample survey, site relocation, and the use of Global Positioning System (GPS) and laser transit hardware and software for site recordation, data conversion, site mapping, and the completion of a mapping program.

ANTH 225 Historical Archaeology (3.00)
2.50 hours lecture - 1.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Method and theory of historical archaeology, including archival research, artifact identification, and report preparation. Training in the location and interpretation of archival documents, such as Franciscan Mission records, Spanish land grant documents, homestead patents, Sanborn fire insurance maps, assessor's records, and historic topographic maps. Training in the identification of ceramic, glass and metal artifacts and their associated function, method of manufacture, manufacturer, and temporal distribution.

ANTH 296 Special Problems in Anthropology (1.00-3.00)
3.00-9.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An individualized or group project in cultural or physical anthropology of any nature approved by the instructor and under the personal supervision of the instructor.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

ANTH 297 Special Problems in Archaeology (1.00-3.00)
3.00-9.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An individualized or group project in archaeology approved by the instructor and under the personal supervision of the instructor.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

ANTH 298 Internship in Archaeology (1.00-4.00)
3.75-12.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Supervised internship in a government agency, private firm or museum. The student intern will have the opportunity to participate in the excavation and/or analysis, processing, and documentation of archaeological collections.

AODS-Alcohol and Other Drug Studies

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AODS 150 Introduction to Alcohol and Other Drug Studies (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: PSYC 150, SOC 150
Examines alcohol, tobacco, and psychoactive drugs in society. Biological, psychological and socio-cultural factors of drug abuse and dependence will be explored. The impact of addiction on families and society; contemporary treatment techniques, and the addiction counseling profession will be covered.

AODS 155 The Physiology and Pharmacology of Psychoactive Drugs (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: SOC 155, PSYC 155
This course will examine how psychoactive drugs affect the nervous system. Ways of classifying drugs will be identified including the processes of physical and psychological dependence, tolerance, withdrawal, and genetic predispositions. Temporary and long-term affective, behavioral, cognitive, biological, and social consequences of psychoactive drug use will be explored, including disorders such as Korsakoff's syndrome and other nutritional deficiencies.

AODS 160 Prevention, Intervention, and Education (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course will review historical and contemporary approaches for chemical dependency, including prevention, intervention, and education. It will analyze the progression of substance abuse and chemical dependency disorders and will evaluate types of prevention, education, and intervention strategies.

AODS 165 Law and Ethics (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course is the study of legal and ethical components of substance use disorder counseling for the Alcohol and Other Drug Studies Program.

AODS 250 Group Leadership and Process (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
An introduction to the dynamics of group interaction, with emphasis upon the individual's firsthand experience as the group studies itself under supervision. Problems of communication, effective emotional responses, and personal growth will be highlighted. The emphasis will be upon group process as a means of changing behavior.

AODS 255 Case Management (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course reviews the principles and practice of case management for the helping professions. This course introduces students to the theoretical and practical application of case management skills and techniques. An emphasis is placed on preparing students to work effectively in the helping professions, with an emphasis on substance use disorder counseling. Topics include clinical evaluation, treatment planning, referral, service coordination, counseling, client and community education, documentation, and professional and ethical responsibilities for the helping professions.

AODS 260 Chemical Dependency Family Counseling (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course is designed to explore methods of assisting family members and others to understand and to cope with the alcohol and drug abuse of alcoholics and addicts. Several family therapy modalities will be explored. The approach will be experiential in format and students will participate exercises that lead to the development of these skills.

AODS 270 Co-Occurring Disorders (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Graded Only
This course introduces the assessment process and identification of the signs and symptoms of co-occurring disorders (which involve both mental health conditions and substance use disorders occurring simultaneously). It explores the relationship of these conditions and introduces the Diagnostic and Statistical Manual of Mental Disorders. Emphasis is placed on developing comprehensive treatment approaches and developing the entry-level skills that professionals need when working with individuals who have co-occurring disorders. Letter grade only.

AODS 298 Directed Field Experience I (3.00)
3.00 hours lecture
Corequisite (Course required to be taken concurrently): AODS 298L
Transferability: CSU
Grading: Grade/Pass/No Pass
This course is the study of substance use treatment, focusing on developing the knowledge, skills and attitudes of a student-intern, alcohol and drug counselor. This course supports student interns enrolled in an internship or work experience course and facility. Students will have an opportunity to observe and work with human service providers working with clients in agency settings. Ethical guidelines for helping professions, developing cultural competence, stages of change and motivational interviewing as a helping style are discussed. Interns practice interviewing skills for increasing motivation for positive change.Students must be accepted for an internship at an approved substance abuse or human services treatment facility. Sixty hours is required for each credit unit in an unpaid internship, and seventy-five hours is required for each credit unit in a paid internship.

AODS 298L Directed Field Experience I (2.00-3.00)
6.00-9.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): AODS 298
Transferability: CSU
Note: May be taken up to 4 times for up to 12.00 total units
Grading: Grade/Pass/No Pass
Supervised internship in a human service agency or an alcohol and other drug treatment facility. The student intern will have an opportunity to observe human service providers working with clients in agency settings. Ethical guidelines for helping professions, developing cultural competence, stages of change and motivational interviewing as a helping style are discussed. Interns practice interviewing skills for increasing motivation for positive change.

AODS 299 Directed Field Experience II (3.00)
3.00 hours lecture
Prerequisite: AODS 298 and AODS 298L and AODS 250 and AODS 255 and AODS 165; **Corequisite (Course required to be taken concurrently):** AODS 299L
Transferability: CSU
Grading: Grade/Pass/No Pass
This course is a study of substance use treatment with an emphasis on developing the knowledge, skills and abilities of the student as intern alcohol and drug counselor. This course emphasizes advanced concepts in chemical dependency. Students refine their skills for the 12 core functions of effective clinical practice and compile a professional portfolio in preparation for the state certifying exam. This course meets the 45-hour supervised practicum requirement for the California Certification Board of Alcohol and Drug Counselors. Sixty hours is required for each credit unit in an unpaid internship, and seventy-five hours is required for each credit unit in a paid internship.

AODS 299L Directed Field Experience II Lab (2.00-3.00)
6.00-9.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): AODS 299
Transferability: CSU
Note: May be taken up to 4 times for up to 12.00 total units
Grading: Grade/Pass/No Pass
This course provides students with a hands-on learning experience through cooperative education, work experience. This is a cooperative effort between a provider agency, the student and instructor. Emphasis is placed on enabling the student intern to learn and experience the work of an alcohol and other drug counselor while receiving college credit. Students must be accepted for an internship at an approved substance abuse treatment facility.

AP AC-AP Acoustical Installer

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AP AC 701 Orientation (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP DL 701, AP PL 701
An introduction to the Interior Systems program. Safe and proper use of hand tools, power tools, trade related math, beginning print reading and layout as well as safety certifications. Certifications will include scaffold erector/dismantler (welded frame) and low velocity powder actuated tools.

AP AC 702 Safety and Health Certifications (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP DL 702, AP PL 702
Instruction in safety and health training that meets the needs of the Interior Systems industry. Content includes certification in Power Industrial Trucks, Aerial Lift, American Red Cross First Aid / CPR/ AED, and OSHA 10.

AP AC 703 Printreading (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP DL 703, AP PL 703
An introduction to the basic visualization skills needed for reading and interpreting construction prints. Demonstration of the significance of views, elevations and the role of specifications as they relate to prints.

AP AC 704 Advanced Printreading (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP DL 704
In-depth training for on-the-job print reading situations. Covers advanced layout tasks and solutions to typical construction problems using plans and specifications for commercial construction projects.

AP AC 705 Acoustical Ceilings (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Instruction in acoustical ceilings, seismic codes and the theory behind them. Wall molds and trims, ceiling layout and material identification. Students will install ceilings using the technical knowledge and skills.

AP AC 706 Standard Acoustical Grids (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Designed with classroom instruction but will focus more on acoustical grid installation such as 2 x 4 and 2 x 2 flat "H" pattern, radius, gable and diagonal ceilings.

AP AC 707 Suspended Ceilings (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Designed with classroom instruction but will focus more on acoustical grid installation such as 2 x 4 and 2 x 2 flat AH@ pattern, radius, gable and diagonal ceilings.

AP AC 708 Soffits (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Focus on square and slant faced, tapered, concealed, drywall suspension and sloped soffits.

AP AC 709 Prefab/Sound Panels (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Focus on the technical knowledge and skills needed for the installation of prefabricated wall and ceiling panel systems. Acoustical principles and the theory of sound will be discussed.

AP AC 710 Concealed/Glue-Up/Staple-Up System (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Instruction in concealed and semi-concealed ceilings and soffits, glue-up and staple-up. Technical knowledge and skills will be demonstrated in assembling these ceilings.

AP AC 711 Designer and Specialty Trims (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
This course is a more advanced look at specialty and designer trims for grid ceiling systems. Previous knowledge will be applied when laying out and installing straight and curved trims in soffit and light pocket designs, along with clouds, or free floating, trimmed ceilings.

AP AC 712 Metal Pan and Security Systems (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Focus on the technical knowledge and skills needed to work with these "high end" products.

AP AC 713 Advanced Acoustical Installation (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Instruction in the materials and methods used for the installation of custom and intricate grid systems. Green building rating systems will be applied to selected acoustical materials.

AP AC 714 Advanced Acoustical Layout (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Advanced layout methods used to complete complex acoustical system installations. Covers seismic codes and requirements and layout techniques for establishing intricate geometric designs for ceiling grids.

AP AC 715 Drywall Acoustical Ceilings (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Identifies the materials and methods used for the installation of acoustical ceilings. Seismic codes, materials, and requirements are also reviewed. Installation for various grid systems will be discussed. Students will use the skills presented to complete an acoustical ceiling project as part of this course.

AP AC 774 Tool & Equipment Applications (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP DL 774, AP PL 774, AP C 774
This course promotes hand/power tool and equipment skill development for various construction applications. Scaffold building, aerial lift safety, and operating procedures will be covered. Upon successful completion, students will be issued United Brotherhood of Carpenters (UBC) Aerial Lift and Scaffold Erector-Welded Frame Qualification Cards.

AP AC 797 Acoustical Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Topics in Acoustical. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

AP C-AP Carpentry

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AP C 701 Orientation (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
This course provides the participants with an overview of the carpentry profession. Discussion topics will include the history of the trade, apprenticeship laws, hiring hall practices and the duties and responsibilities of apprentices. The workplace environment, basic safety, Gradall equipment, hand and power tools, and math applications used in the industry will be covered. Successful students will receive OSHA 10 and Powder Actuated Tool certification cards. Qualified candidates will be issued an UBC gradall operator's card.

AP C 702 Safety and Health Certification (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Covers the safe and appropriate use of scaffolds, aerial lift equipment, and emergency response procedures. Successful students will receive UBC Scaffold Erector and Aerial Lift Operator qualification cards. First Aid and CPR certification will be issued upon successful completion of the American Red Cross training provided.

AP C 703 Printreading (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
The first of two classes in blueprint reading. Covers the fundamental functions and structure of blueprints. Construction drawings, line symbols, freehand sketching as well as pictorial drawings will be covered.

AP C 704 Advanced Printreading (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Second of two courses in blueprint reading. Covers foundation prints, commercial prints, residential prints and estimating. Construction specifications will also be covered.

AP C 705 Foundation and Flatwork (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Covers the design and function of several types of foundations and concrete flatwork. The methods, techniques and procedures for formwork layout, elevation, and construction will be presented. Jobsite safety, print interpretation, material identification, and basic use of the builder's level will be included in the training. Students will construct three selected formwork projects.

AP C 707 Tilt-Up Panel Construction (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Designed to give an overview of the Tilt-Up industry. Form techniques and panel hardware will be discussed. Related safety, math and blueprint reading will be covered.

AP C 708 Wall Forming (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduces the basic techniques of poured-in-place concrete wood form construction. Related safety, math and blueprint reading will be covered.

AP C 709 Gang Forms/Columns (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Presents the formwork types and construction methods for gang form and column installations. Discussions will cover heavy timber gang forms and use of taper ties, bracing, and bulkhead tables. The course project will include gang and column formwork construction, assembly, and hardware installation tasks. Related safety, math and print reading will be covered in the training.

AP C 710 Patented Forming Systems (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Covers the basic knowledge required to use blueprints for the purpose of properly laying out, locating, leveling, plumbing, squaring and preparing patented forming systems for concrete work/pours. Poured in place, tilt-up and precast above grade level structural concrete work including structural load bearing walls, decks and columns.

AP C 712 Column Forms (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Presents the formwork types and construction methods for column form installations. Discussions will cover structural significance of column layout, squaring, leveling and plumbing. The course project will include column formwork construction, assembly, and installation tasks. Related safety, math and printreading will be covered.

AP C 713 Beam and Deck Forming (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction to the use of beam and deck forming systems for concrete construction. Students will identify formwork types and installation techniques including calculating materials and setting beam & deck forms. Metal beam forms and capitals will be highlighted. Layout and builders level skills will be used in this class.

AP C 714 Basic Commercial Framing (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Provides an introduction to the theory and practice of wall framing. Students start by learning to read floor plans, and then laying out wall locations, plate and detail, as well as openings and structural connections. Construction math and job site safety practices will also be covered.

AP C 716 Commercial Floor Framing (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Covers the layout and construction of both residential and commercial floor framing. The use of building codes and blueprint reading will be covered. Fall protection along with job site safety and construction math will also be covered.

AP C 717 Basic Stairs (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Stair construction is an integral part of the carpenter's trade. This course presents stair theory, related mathematics, code requirements, and basic layout stringers, treads and risers. Students will layout, cut, and erect a straight-run stair. Blueprint reading and safety will also be covered.

AP C 718 Advanced Stairs (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Builds upon the concepts presented in Basic Stairs. This class will teach students about winders, u-shaped and radius stair building, as well as code requirements and mathematical calculations. Blueprint reading and safety will also be covered.

AP C 719 Exterior Finish Details (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Teaches students to read blueprints related to building exteriors such as elevations, sections, and schedules. Construction of structural and architectural elements such as balconies, fireplaces, bay windows, columns and pop-outs. Blueprint reading, mathematical calculations and safety will also be covered.

AP C 721 Basic Roof Framing (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Roof construction is one of the most challenging and satisfying facets of carpentry. Introduces rafter theory and layout. Students will construct a gable roof using conventional and truss methods. Mathematical calculations for various rafter lengths and safety will also be covered.

AP C 723 Basic Metal Framing (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduces the student to the technology of metal framing. Tools and materials will be covered along with floor and wall construction, including openings and structural connections, and metal truss roof systems. Mathematical calculations for various rafter lengths and safety will also be covered.

AP C 725 Transit Level/Laser (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Addresses form design, material estimating and problems relative to form construction. Related safety, math and blueprint reading will be covered.

AP C 726 Bridge Construction (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Provides students with an overview of basic bridge construction. Descriptions for exterior and interior girders, edge forms, bulkheads and hinge forms will be presented. Formwork project will include panel construction, assembly, and hardware installation tasks. Related safety, math and print reading will be covered in the training.

AP C 727 Stair and Ramp Forming (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Designed to teach the various techniques used to form stairs and ramp structures. Related safety, math and blueprint reading will be covered.

AP C 728 Stair Trim (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Covers how various trims are utilized to finish stair construction design features. Product styles, characteristics, applications, and installation methods are included in the discussions. The tools and techniques for cutting and installing selected trim types are presented and practiced throughout the training.

AP C 729 Cabinet Millwork and Assembly (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction to basic cabinet construction. Blueprint and finish schedules will be covered as well as related safety and math.

AP C 730 Cabinet Installation (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Installation of base and wall-hung cabinets, scribing techniques, and how to read blueprint and finish schedules. Related safety and math will also be covered.

AP C 735 Molding and Trim (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction to various moldings and the specific installation techniques of each. Blueprint, finish schedules, and related safety and math will also be covered.

AP C 736 Plastic Laminates (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Covers manufactured product styles, characteristics, and countertop applications. Materials used as countertop and backsplash substrates are discussed. Construction procedures and installation methods are presented, and students will apply the techniques to produce and install a plastic laminate countertop with backsplash.

AP C 737 Door and Door Frames (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction to doors and door hardware schedules, specifications and manufacturer's catalogs. Fire codes that govern the hardware industry as well as how to identify various door hardware including locksets, closures, hinges, panic hardware and door sweeps, etc. Blueprint, finish schedules, and related safety and math will also be covered.

AP C 739 Door and Door Hardware (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP DL 739
Introduction to the selection and installation of proper hinge and door-closure hardware. Blueprints, finish schedules, and related safety and math will also be covered.

AP C 745 Commercial Fixtures (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Includes print interpretation and fabrication techniques used in the preparation and installation of commercial store fixtures. An emphasis will be placed on accurate measuring, proper hand and power tool use, and safety. Students will calculate materials to create cut lists, and fabricate, assemble and install wall panel and valance fixtures.

AP C 747 Basic Suspended Scaffold (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Basic techniques and procedures associated with suspended scaffolds. The terminology and use of scaffold components in a cable suspended configuration will be the focus of this training. Construction practices and safety will be taken into consideration as students erect equipment using project design plans for this cable suspended scaffold.

AP C 748 Advanced Suspended Scaffold (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Advanced techniques and procedures required when constructing suspended scaffolds supported by structural members. Students will identify the suitable structural components for this application type. The methods used to determine load bearing capability of structural elements will be presented. The hazards and precautionary techniques associated with safely building this type of suspended platform will be the focus of this training.

AP C 749 Basic Systems Scaffold (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Basic techniques and procedures associated with systems scaffold components. Terminology and components unique to this category of equipment will be discussed. Construction practices and safety considerations will be a major focus of the class. Students will identify and erect equipment using the custom configurations for jobsites where this type of scaffold is most frequently utilized.

AP C 750 Intermediate Systems Scaffold (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Includes application of cantilevered design methods used to safely erect platforms extending beyond a typical scaffold base arrangement. Students will apply methods and erect equipment using custom configurations for jobsites.

AP C 751 Advanced Systems Scaffold (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Covers the advanced techniques and procedures required when constructing system scaffolds used in industrial boiler installation or repair applications. Students will apply common solutions for bridging voids and following equipment contours to construct the selected industrial simulated scaffold projects.

AP C 752 Basic Frame Scaffold (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Covers terminology, components and the basic techniques and procedures associated with frame scaffold components. Construction practices and safety considerations will be a major focus of the class. Students will choose and erect equipment using basic configurations suitable for jobsites where this type of scaffold is most frequently utilized.

AP C 753 Intermediate Frame Scaffold (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction of obstacle and height problem solving into frame scaffold project, to include equipment or overhead restrictions. Students will identify and erect equipment using custom configurations for jobsites.

AP C 754 Advanced Frame Scaffold (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Covers the advanced techniques and procedures associated with ground supported frame scaffold, in particular the use of scaffold components for construction of various heavy-duty (industrial) elevated platforms. Safety precautions, building procedures and material utilization will be incorporated into the assigned tasks. Students will erect heavy-duty large scale platform scaffolds using project plans and designs for this industrial scaffold application.

AP C 755 Basic Tube and Clamp Scaffold (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Covers the basic techniques and procedures associated with tube and clamp scaffold components and erection methods. Construction practices and safety considerations will be a major focus of the class. Students will learn to choose and erect equipment using custom configurations for jobsites.

AP C 756 Scaffold in Confined Spaces (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Instruction in safe access, entry and monitoring methods for confined space. Both CAL-OSHA and Federal OSHA regulation are covered in detail. The importance of a respirator fit test and respiratory protection training are covered in this course.

AP C 757 Specialty Scaffold Applications (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Includes specialty scaffold applications focusing on ramps, chutes and mobile towers suitable for light and heavy duty use. Students will learn the characteristics of commercial and industrial scaffold construction. Selected projects will introduce the techniques and procedures used for access/egress, debris handling, and maintenance scaffolds.

AP C 758 Scaffold Reshoring (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Present students with the modified principles and techniques for the use of shoring equipment in a re-shore application. The importance of uniform loading and alignment of muti-tower/tandem tower configurations will be covered. Students will identify and erect scaffold equipment using three types of configurations suitable for scaffold re-shoring purposes.

AP C 761 Basic Wall Framing (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Presents the theory, methods, and procedures required to frame basic walls. Hands-on practice using proper tool techniques and appropriate materials will enhance fundamental skill development. Beginning with an introduction to print reading, students will perform: basic wall layout; plating procedures; framing assembly and bracing; before aligning and completing selected wall construction project to industry standards.

AP C 764 Abutments (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Provides instruction in the detailing, layout and construction of abutments used in the heavy highway industry. The terms, components, materials, building techniques and procedures will be presented. The class project includes keyway, panel, head wall and wing wall construction.

AP C 765 Rigging (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Lifting theory and practical rigging methods and procedures to include rigging attachment procedures, lifting equipment, limits of operation, and communication practices.

AP C 770 Green Building and Weatherization (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Energy efficiency, "green" building methods, rating systems and commissioning will be discussed. Products, techniques, and weatherizing procedures used for new buildings and retro-fit buildings will be included in hands-on activities. Practices and devises used to maintain healthy air quality during construction will be a focus of the training.

AP C 771 Intermediate Commercial Framing (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Enhances basic wall framing theory, and wall construction techniques are applied at increased skill levels. A review of basic wall framing and floor plans used for job planning, design recognition, and materials lists is included. Students will layout and detail wall plates for locating basic wall components and door openings. Instruction includes measuring skills, mathematical principles, wall assembly and installation procedures, and detail how structural connections are made.

AP C 772 Solar Installer Level 1 (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Covers the design and function of several types of solar installation. The methods, sequences and procedures for foundation layout, elevation, and assembly for solar construction will be presented. Jobsite safety, print interpretation, material identification, and use of system devices and testing criteria will be stressed. Students will construct three selected solar installation projects.

AP C 773 Water Treatment Facilities (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Instruction in the detailing, layout, and construction of concrete formwork and waterstop used in water treatment facilities. The terms, components, materials, building techniques and procedures will be presented. The class project includes keyway, panel, waterstop, head wall and wing wall construction.

AP C 774 Tool & Equipment Applications (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP DL 774, AP AC 774, AP PL 774
This course promotes hand/power tool and equipment skill development for various construction applications. Scaffold building, aerial lift safety, and operating procedures will be covered. Upon successful completion, students will be issued United Brotherhood of Carpenters (UBC) Aerial Lift and Scaffold Erector-Welded Frame Qualification Cards.

AP C 775 Store Front Installations (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Graded Only
Installation process from constructing storefront openings to putting glass components into commercial store front metal framing.

AP C 776 Total Station I (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Evolution of survey and layout instrument and the advantages of using a total station for building layout over traditional methods. Students will set up a total station and configure the software.

AP C 777 Welding Fabrication (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction to layout, and basic welding and fabrication. Students will be introduced to the basic skills of measuring, equipment set-up and cutting, shaping, grinding, welding, filing, heating and bending of metal parts.

AP C 778 Solid & Stone Surfaces (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Basic and advanced assembly and installation techniques for solid surface, natural stone and manufactured materials. Students will use the procedures presented to fabricate countertops and create a design inlay.

AP C 779 Exit & Electrical Security Devices (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Classification, types, models, codes, and uses for accident hazard exit ("panic") devices.

AP C 780 Fitting Rooms/Partitions (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
This course will compare styles, attachment methods and installation techniques for various fitting room and partition fixtures.

AP C 781 Industrial Scaffolding (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Basic Techniques and procedures associated with frame, system, and tube and clamp scaffold components used in industrial settings. construction practices and safety considerations will be a major focus of the class including general plant operating conditions and hazards.

AP C 782 Bridge Falsework (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Bridge falsework design and construction methods and procedures. Students will construct bridge falsework using job-built methods.

AP C 783 Crew Lead Training (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice;
Student is a registered State indentured apprentice.
Grading: Grade/Pass/No Pass
Cross listed as: AP PL 783
This course covers the supervisory and crew leadership skills
required for professional development in the residential/
commercial scaffold/plaster erector industry.

AP C 797 Carpentry Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Topics in Carpentry. See Class Schedule for specific topic offered.
Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number
of hours required of the student. Any combination of lecture and
laboratory may be scheduled by the department. Refer to Class
Schedule.

AP DL-AP Drywall/Lather

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AP DL 701 Orientation (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP AC 701, AP PL 701
An introduction to the Interior Systems program. Safe and proper
use of hand tools, power tools, trade related math, beginning print
reading and layout as well as safety certifications. Certifications will
include scaffold erector/dismantler (welded frame) and low velocity
powder actuated tools.

AP DL 702 Safety and Health Certifications (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP AC 702, AP PL 702
Instruction in safety and health training that meets the needs of
the Interior Systems industry. Content includes certification in
Power Industrial Trucks, Aerial Lift, American Red Cross First Aid /
CPR/ AED, and OSHA 10.

AP DL 703 Printreading (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP AC 703, AP PL 703
An introduction to the basic visualization skills needed for reading
and interpreting construction prints. Demonstration of the
significance of views, elevations and the role of specifications as
they relate to prints.

AP DL 704 Advanced Printreading (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP AC 704
In-depth training for on-the-job print reading situations. Covers
advanced layout tasks and solutions to typical construction
problems using plans and specifications for commercial
construction projects.

AP DL 705 Basic Lathing (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Presents the basic lathing methods used in the industry for
exterior/interior installations. Students will use the skills presented
to complete a lathing project as part of this course.

AP DL 706 Framing Ceilings and Soffits (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
This course is designed to provide instruction in the basics of
framing ceilings and soffits with drywall and lath application.
Related safety, math and blueprint reading will be covered.

AP DL 707 Basic Metal Framing (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
An in-depth study of basic material identification, print layout,
framing, drywall applications and proper trim applications for the
Drywall/Lath industry. Safety, math and blueprint reading will be
covered.

AP DL 708 Framing Suspended Ceilings (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
This course is designed to provide related classroom instruction
with the technical skills and knowledge to successfully frame any
suspended ceiling in drywall and lath. Related hand and power tool
safety, math and blueprint reading will be covered.

AP DL 709 Framing Curves and Arches (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Provides instruction in framing methods for curves and arches and
their related structural limitations. Students will use the skills
presented to complete a framing project that includes curves and
arches as part of this course.

AP DL 710 Light Gage Welding - AWS - A (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Designed to teach the practical skills needed for the arc welding
processes and applications. Students will have the practical skills to
successfully pass the AWS light gage certification. Related safety,
codes and materials will be covered.

AP DL 711 Light Gage - L.A. City Certification (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Designed for the student to complete the Los Angeles City Light Gage Welding Certification practical and written test. Practical and written aspects of the test will be examined and discussed in order to provide the student with the information and ability necessary to successfully achieve certification. The student will also have the opportunity to complete the welding test necessary for the practical portion of the LA City Light Gage Certification.

AP DL 712 Basic Hand Finishing (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Develop basic hand finishing skills using the correct tools and materials. Includes a description of finishing levels, hand tool manipulation, material identification, selection, and mixture preparation. Key processes and application techniques will be presented. Students will review plans and specifications, calculate and select materials, and complete a wall project to a level four finish.

AP DL 713 Drywall Acoustical Ceilings (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Identifies the materials and methods used for the installation of acoustical ceilings. Seismic codes, materials, and requirements are also reviewed. Installation for various grid systems will be discussed. Students will use the skills presented to complete an acoustical ceiling project as part of this course.

AP DL 714 Door/Door Frames (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction to the basic installation of door frames and various types of doors. Lock sets, closures, hinges, panic hardware, and door sweeps will be discussed and demonstrated.

AP DL 715 Exterior Insulation Finish Systems (EIFS) (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP PL 715
Introduction to the basic working knowledge and technical skills needed to successfully install Exterior Insulation and Finish Systems EIFS (foam products) to meet industry specifications and standards. Introduction to the proper usage of products and materials will be discussed and used.

AP DL 716 Firestop/Fireproofing Procedures (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP PL 716
Emphasis on the correct methods, technical skills and firestop materials required to complete a Firestop System. Firestopping is a complete fire containment system designed to prevent the passage of fire, smoke and hot gasses from one side of a rated wall/ceiling assembly to another.

AP DL 717 Free-Form Lathing (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction to the techniques and skills needed for construction of freeform lath projects. Layout techniques using grids and projection overlay will be presented. Methods for bending and shaping of rebar and pencil rod, lath handling and tying along with welding and cutting techniques will be demonstrated and applied.

AP DL 718 Automatic Finishing Tools (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Advanced instruction in blueprints, finish schedules, and machine parts identification, as well as proper use, assembly and breakdown of tools.

AP DL 720 Drywall Installation/Finish Trims (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Instruction in the basics of gypsum board application and finish trims.

AP DL 721 Advanced Hand Finishing (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
In depth instruction in hand tool use. The different operations, phases, and materials to be used in order to have information of what a finished product should look like.

AP DL 722 Advanced Automatic Finishing Tools (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Instruction in the proper methods and sequences of the "bazooka", flat boxes, nail spotters and angle boxes.

AP DL 723 Advanced Lathing (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
This course will distinguish advance lathing methods and styles from basic application techniques for lath and trim products used on exterior-interior metal framing. Metal framing elements, various bead styles, lathing types and substrates will be covered in both discussions and lab activities. Proper leveling and finishing methods will be demonstrated. Students will apply lath and trim using the techniques presented to complete course projects.

AP DL 724 Ceiling and Soffit Finishing (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Designed to provide an advanced level of finishing skill for applications with architecturally detailed ceilings and soffits. Guided practice with a combination of hand and automatic tool techniques will promote the level of manipulative ability required for a successful result. A variety of finish trims will be integrated into each method of finish. Training will conclude with inspection criteria for evaluating finish levels.

AP DL 726 Reinforced Substrate Installations (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Presents the applications, techniques, and product considerations typical of reinforced substrate installations. The training will focus on Glass Fiber Reinforced Gypsum and Glass Fiber Reinforced Concrete (GFRG) & (GFRC) products. The lab project will include layout, cutting and handling practices, attachment methods, alignment and various related installation methods.

AP DL 728 Drywall Applications (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Focus on the skills to properly handle and install drywall used in specialized applications including fire resistance, sound control, and life safety. Layout, cutting, attachment procedures and productivity techniques will be discussed and practiced under jobsite conditions. Drywall finishing methods will be incorporated into the hands-on activity.

AP DL 729 Advanced Metal Framing (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Review of basic metal framing and detailed procedures for framing curved, serpentine, and elliptical non load bearing partitions.

AP DL 730 Air, Moisture & Thermal Barriers (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Building sealing products and installation techniques.

AP DL 731 Drywall Repair and Finishing (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Various types of wall patching and finish repairs.

AP DL 732 Light Gage Welding AWS (B) (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Light gage welding methods and techniques aligned with American Welding Society (AWS) welding processes, symbols, materials, and safety procedures.

AP DL 739 Door and Door Hardware (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP C 739
Introduction to the selection and installation of proper hinge and door-closure hardware. Blueprints, finish schedules, and related safety and math will also be covered.

AP DL 774 Tool & Equipment Applications (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP AC 774, AP PL 774, AP C 774
This course promotes hand/power tool and equipment skill development for various construction applications. Scaffold building, aerial lift safety, and operating procedures will be covered. Upon successful completion, students will be issued United Brotherhood of Carpenters (UBC) Aerial Lift and Scaffold Erector-Welded Frame Qualification Cards.

AP DL 797 Drywall/Lather Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Topics in Drywall/Lather. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

AP IT-AP Intelligent Transport

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AP IT 701 Introduction to the Intelligent Transportation Systems Trade and Industry (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Orientation to the intelligent transportation systems industry with emphasis on an introduction to apprenticeship, jobsite overview, tools, hardware, beginning conduit bending and electrical system principles. Particular attention will be given to fundamental mathematics, safety awareness, and apprentice responsibilities.

AP IT 702 Electrical Theory, Applications and Blueprint Reading (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction to Ohms law and electrical DC theory. Study of proper load rigging and hoisting techniques. Knot tying and rope usage. Underground electrical applications. Conduit trenching installations. Basic blueprint reading and surveying for electrical construction projects.

AP IT 703 DC circuits, Codeology, and Underground Installations (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Study of circuit analysis techniques, DC circuit theory, National Electric Code (NEC), underground installations, grounding systems.

AP IT 704 AC Theory, Blueprints Maintenance and Trouble shooting (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Study of blue print fundamentals. Students participate in exercises involving, symbols, conversions and abbreviations. Students draw electrical diagrams of DC circuits. Introduction into AC theory. Maintenance and troubling shooting of electrical circuits. Traffic signal cabinets and equipment is covered.

AP IT 705 Combination Circuits, Traffic Signal Cabinets and Controllers (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction to electrical power quality, power factors, combination circuits, traffic signal cabinets, traffic signal controllers, traffic signal coordination, bridge blueprints, sign structures, street lighting, and leadership skills.

AP IT 706 Alternative Energy Systems, CCTV , Fiber Optics (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction to alternative energy systems, photovoltaics, uninterrupted power supply, CATV and CCTV Systems, security systems, fiber optics, video motion detectors, video communications control, traffic signal timing, troubleshooting and leadership skills.

AP IT 707 Motor Control, Safety Training and Certifications (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Study of motor controls and circuits, pilot devices, starters, and relays. Includes the analysis and development of circuits, the installation and the service of electrical equipment. OSHA 30/EM 385 certification and IMSA Certifications.

AP IT 708 Electrical Certification and Project Supervision (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a State Registered Indentured Apprentice
Grading: Grade/Pass/No Pass
Designed to prepare the student to take the California General Electrical State Certification Examination. Provides a review of concepts and principles, but focuses primarily on understanding and applying the National Electric Code (NEC).

AP IW-AP Inside Wireman

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AP IW 701 Introduction to the Electrical Trade (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction to the electrical industry, with emphasis on jobsite safety, basic conduit bending, National Electric Code (NEC), sexual harassment, introduction to blueprints, tools and their use. Particular attention will be given to fastening devices, basic mathematics, resistance, voltage, power in DC series, parallel, and combination circuits.

AP IW 702 Electrical Theory, Practice and Blueprint Reading (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Survey of drug awareness, Union Constitution and Bylaws, parliamentary procedure, test instruments, three-phase electrical systems, DC and AC power generation, specialized conduit bending techniques, National Electric Code (NEC), solid state devices, blueprint analysis, AC theory, transformers, vector analysis, impedance, voltage, power in AC series, parallel, and combination circuits.

AP IW 703 Electrical Theory and Practices AC (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Study of circuit analysis techniques, power factor, semiconductors, AC system grounding and bonding, ground fault protection systems, overcurrent protective devices (fuse and circuit breakers), test instruments, National Electric Code (NEC), and industrial blueprint analysis.

AP IW 704 Transformer, Motors, and Motor Controls (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Study of real-world application of transformer, motor and motor control concepts utilizing extensive hands-on labs and demonstrations. Students work in foremen-led teams to design, build, and test motor control circuits. Students will gain familiarity with a wide array of test instruments including DMMs, voltage testers, megohmmeters, clamp-on ammeters, capacitance testers and other equipment.

AP IW 705 Special Electrical Systems (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction to telephony and data networks, fire alarm systems, nurse call systems, Programmable Logic Controllers (PLCs), arc-flash protection, and instrumentation concepts, National Electric Code (NEC), and OSHA rules and regulations.

AP IW 706 Specialized Electrical Applications (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction to electrical power quality, CATV and CCTV Systems, security systems, fiber optics, hazardous locations, lighting protection, advanced conduit bending, HVAC principles and controls, blueprints, and leadership skills.

AP IW 713 Electrical Project Supervision (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
An overview of all processes required to run a successful job. The class utilizes field trips and speakers to give the student a 360-degree view of the workplace. Each speaker will bring expertise from the field into the classroom where students will learn the right and the wrong way to organize and run a jobsite.

AP IW 714 Electrical Certification Preparation (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Designed to prepare the student to take the California Electrician Certification Examination (CECE). Provides a review of concepts and principles, but focuses primarily on understanding and applying the national Electric Code (NEC), the set of standards upon which the CECE is based.

AP IW 716 Photovoltaics, Electric Vehicle Charging Stations, Battery Storage, and Microgrid Systems (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Technologies and installation requirements for photovoltaic systems. Subjects presented in this course are renewable energy construction, renewable energy resources, renewable energy efficiency, and energy savings devices used in construction.

AP IW 725 Lighting Control Systems and Safety (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Technologies and installation requirements for Building Automation Systems (BAS.) The subjects presented in this course are Building Automation applications and requirements used in the construction of commercial and industrial buildings. This course allows students to practice the technical skills required to successfully install, commission, and verify operation of a wide variety of advanced components, such as photosensors, occupancy sensors, digital dimming networked and wireless control systems, programmable time clocks, and emergency lighting controls. In addition, it comprehensively addresses the requirements, regulations, products and strategies which will enable electricians to master successful, expert, and professional customer relations, installation, and maintenance of Electric Vehicle (EV) and Plug-in Hybrid Electric Vehicle (PHEV) infrastructure.

AP IW 726 Electrical Construction Practices (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
The technologies and skill sets required for installing and provisioning the electrical requirements for commercial or industrial facilities. The topics presented in this course include electrical distribution overview, safety, OSHA requirements, shoring, trenching, Sempra Service Guide requirements, rigging, IEEE Standards, Blueprints, CSI Master Format construction specifications and National Electrical requirements for electrical services and distribution systems.

AP PL-AP Plasterer

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AP PL 701 Orientation (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP DL 701, AP AC 701
An introduction to the Interior Systems program. Safe and proper use of hand tools, power tools, trade related math, beginning print reading and layout as well as safety certifications. Certifications will include scaffold erector/dismantler (welded frame) and low velocity powder actuated tools.

AP PL 702 Safety and Health Certifications (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP DL 702, AP AC 702
Instruction in safety and health training that meets the needs of the Interior Systems industry. Content includes certification in Power Industrial Trucks, Aerial Lift, American Red Cross First Aid / CPR/ AED, and OSHA 10.

AP PL 703 Printreading (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP DL 703, AP AC 703
An introduction to the basic visualization skills needed for reading and interpreting construction prints. Demonstration of the significance of views, elevations and the role of specifications as they relate to prints.

AP PL 705 Basic Lathing (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Presents the basic lathing methods used in the industry for exterior/interior installations. Students will use the skills presented to complete a lathing project as part of this course.

AP PL 706 Basic Plastering (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
This course provides a brief history of plastering and a complete picture of what the plastering industry is like today. The importance of good lathing and proper inspection of lathing will be emphasized. Proper hawk and trowel and basic tool use will be demonstrated.

AP PL 707 Exterior Plastering (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
An introduction to Portland Cement Plaster (a.k.a. stucco) and the processes involved in completing a plastering job. This course will stress the importance of good workmanship and adherence to proven methods of work. Students will begin to develop mastery of basic plastering tools in this course.

AP PL 708 DOT and Screed Techniques (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
This course is designed to teach the importance of plumb and square projects. The students will use 3-4-5 or center line methods to square the project, establish control lines and wall finish lines. The plumbing of the project will be demonstrated through the dotting and screeding portion of instruction. The student will brown up and finish a project using methods of application previously covered.

AP PL 709 Interior Plastering (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
An introduction to modern gypsum interior plastering systems. Proper methods of application, proper proportioning and mixing, and good workmanship will be demonstrated in this course.

AP PL 710 Finish Applications (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
The course will emphasize three different types of molds, their use and application. Components and production of a mold, how to horse a mold and create inside and outside miters will also be covered.

AP PL 711 Ornamental Plastering (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
This course is designed to provide instruction and practice in advanced geometric lay out problems. Class project will guide students through each phase of production to produce an elliptical arch, with keystone at the arch apex. The project will introduce students to benching a mold, setting and pointing staff, building a working trammel and successfully running a trammel mold.

AP PL 713 Theme Plastering (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
This course is designed to teach the student the basic knowledge and skills required to successfully plan and execute a simple project that requires the use of manufactured rock. A study of real rock formations and the techniques used to copy them will be covered as well as painting and highlighting, required tools, art lay out, and carving techniques.

AP PL 715 Exterior Insulation Finish Systems (EIFS) (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP DL 715
Introduction to the basic working knowledge and technical skills needed to successfully install Exterior Insulation and Finish Systems EIFS (foam products) to meet industry specifications and standards. Introduction to the proper usage of products and materials will be discussed and used.

AP PL 716 Firestop/Fireproofing Procedures (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP DL 716
Emphasis on the correct methods, technical skills and firestop materials required to complete a Firestop System. Firestopping is a complete fire containment system designed to prevent the passage of fire, smoke and hot gasses from one side of a rated wall/ceiling assembly to another.

AP PL 717 Plastering Equipment Application (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Instruction in the materials, application methods and techniques for operating a plaster pump. Students will complete a three-coat work application to industry standards. Emphasis on proper pump set-up, washout and maintenance.

AP PL 718 Plastering Equipment (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Terminology, components and operating procedures for plastering equipment and machinery. Machine maintenance, safety, troubleshooting procedures, limits of operation and communication practices will be covered. Students will inspect and properly set up and clean a plastering pump.

AP PL 774 Tool & Equipment Applications (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Cross listed as: AP DL 774, AP AC 774, AP C 774
This course promotes hand/power tool and equipment skill development for various construction applications. Scaffold building, aerial lift safety, and operating procedures will be covered. Upon successful completion, students will be issued United Brotherhood of Carpenters (UBC) Aerial Lift and Scaffold Erector-Welded Frame Qualification Cards.

AP PL 783 Crew Lead Training (1.50)
1.00 hours lecture - 1.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice; Student is a registered State indentured apprentice.
Grading: Grade/Pass/No Pass
Cross listed as: AP C 783
This course covers the supervisory and crew leadership skills required for professional development in the residential/commercial scaffold/plaster erector industry.

AP PL 797 Plasterer Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Topics in Plasterer. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

AP SC-AP Sound/Communication Systems Installer

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AP SC 701 Introduction to the Sound and Communication Trade Industry (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction to the sound and communication industry, electrical code, fundamentals of wiring methods, fastening devices, electrical conductors, circuits, voltage and data communication.

AP SC 702 Electrical Theory and Practices DC (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Study of floor and plot plans, basic blueprint reading and circuit drawing, theory of magnetism, DC and AC generators, motors and transformers, on-the-job safety, first aid, electrical code, telephony and data communications.

AP SC 703 Electrical Theory and Practices AC (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Study of apprenticeship, electrical inductance, capacitance and reactance, including grounded conductors, branch circuits, transformer principles, RCL circuits and filters.

AP SC 704 Semiconductor Electronics (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Study of solid-state electronic theory and components, diodes, transistors, SCR, triacs, diacs, IC amplifiers and op amps.

AP SC 705 Introduction to Signaling Devices and Systems (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction to digital electronic technology and electronic equipment. Instruction includes basic digital systems, binary and decimal numbering systems, decision-making logic circuits, Boolean Algebra, flip-flops, counters, shift registers, encoders, decoders, ROMs, DC to AC converters and organization of these component blocks to accomplish manipulation of data.

AP SC 706 Management/Alarms/Codes/Circuits (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Introduction to management, installation of security and fire alarm systems, the National Electrical Code as it relates to alarm installation and circuits as applied to alarm systems.

AP SC 707 Certification Preparation and Networking System Applications (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Continuation of digital theory studies. Instruction expands coverage of Life Safety Systems, and introduces the theory and application of Nurse Call Systems and Security Systems with an emphasis on closed circuit television (CCTV) installations.

AP SC 708 Safety Systems and Supervision Techniques (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Study of specialized building systems including cable television systems (CATV), master antenna systems (MATV), and building automation systems. Training will cover aspects of job administration including personal computer use, job estimating, customer relations, and building systems start-up procedures.

AP SM-AP Sheet Metal

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AP SM 701 Core-I (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
An introduction to the basic principles, processes, drawings, materials and practices used in the sheet metal industry.

AP SM 702 Core-II (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
A continuation of basic sheet metal processes as well as an introduction to simple sheet metal forming processes.

AP SM 703 Core-III (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
An introduction to intermediate sheet metal processes demonstrating job layout, architectural details and construction techniques with problems of unusual complexity and difficulty.

AP SM 704 Core-IV (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
A continuation of intermediate processes with problems of unusual difficulty and complexity.

AP SM 705 Sheet Metal Welding (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
An introduction to the basic principles and methods of gas and arc welding used in the sheet metal industry. Includes codes, standards, welding theory and the practical application using prescribed welding procedures and equipment.

AP SM 706 Plans and Specifications (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
An introduction to the language and organization of plans and specifications for sheet metal projects. Topics will include architectural, structural, mechanical and electrical drawings as well as how to write and implement a change to plans and specifications.

AP SM 709 Foreman and Project Management Training (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Overview of the knowledge, skills and abilities required to effectively perform as a foreman and project manager in the sheet metal industry.

AP SM 710 Architectural Application (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Overview of the knowledge, skills, and abilities of advanced architectural project performance.

AP SM 711 HVAC I (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
An introduction to the physical components and systems of a basic HVAC system as well as hands-on techniques for startup and basic system troubleshooting.

AP SM 712 HVAC II (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Designed to build on the principles of basic HVAC system design and installation. Students will develop a better understanding of how a modern HVAC system is designed and functions. Field installation, plans and specifications, commissioning, project management and basic LEED principles will also be covered.

AP SM 797 Sheet Metal Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Grading: Grade/Pass/No Pass
Topics in Sheet Metal. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

AP WE-AP Work Experience

To satisfy a prerequisite, the student must have earned a letter grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AP WE 710 Sheet Metal Work Experience (4.00)
12.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Note: May be taken up to 4 times for up to 16.00 total units
Grading: Pass/No Pass Only
Supervised on-the-job training in the Sheet Metal Trade.

AP WE 711 Carpentry Work Experience (4.00)
12.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Note: May be taken up to 4 times for up to 16.00 total units
Grading: Pass/No Pass Only
Supervised on-the-job training in the carpentry trade.

AP WE 712 Drywall/Acoustical Work Experience (4.00)
12.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Note: May be taken up to 4 times for up to 16.00 total units
Grading: Pass/No Pass Only
Supervised on-the-job training in the Interior Systems Trade.

AP WE 713 Electrician Work Experience (4.00)
12.00 hours lab
Prerequisite: Student is a Registered State Indentured Apprentice
Note: May be taken up to 4 times for up to 16.00 total units
Grading: Pass/No Pass Only
Supervised on-the-job training in the Electrician trade.

AP WE 720 Sheet Metal Work Experience (4.00-6.00)
12.00-18.00 hours lab
Grading: Pass/No Pass Only
Students are in a registered apprenticeship program. Students will advance their education and career goals through supervised on-the-job training in the sheet metal trade. Students will work toward job-related learning objectives and reflect on their progress.

AP WE 721 Sheet Metal Work Experience and Team Dynamics (4.00-6.00)
12.00-18.00 hours lab
Grading: Pass/No Pass Only
Students are in a registered apprenticeship program. Students will advance their education and career goals through supervised on-the-job training in the sheet metal trade. Students will work toward job-related learning objectives and reflect on their progress. Students will also explore team dynamics at their worksite, drawing on concepts from group relations theory.

AP WE 722 Sheet Metal Work Experience and Organizational Culture (4.00-6.00)
12.00-18.00 hours lab
Grading: Pass/No Pass Only
Students are in a registered apprenticeship program. Students will advance their education and career goals through supervised on-the-job training in the sheet metal trade. Students will work toward job-related learning objectives and reflect on their progress. Students will also explore the organizational culture of their worksite, drawing on concepts from organizational culture theory.

AP WE 723 Sheet Metal Work Experience and Industry Exploration (4.00-6.00)
12.00-18.00 hours lab
Grading: Pass/No Pass Only
Students are in a registered apprenticeship program. Students will advance their education and career goals through supervised on-the-job training in the sheet metal trade. Students will work toward job-related learning objectives and reflect on their progress. Students will also begin building a professional network in their desired field to support career mobility.

AP WE 730 Carpentry Work Experience (4.00-6.00)
12.00-18.00 hours lab
Grading: Pass/No Pass Only
Students are in a registered apprenticeship program. Students will advance their education and career goals through supervised on-the-job training in the carpentry trade. Students will work toward job-related learning objectives and reflect on their progress.

AP WE 731 Carpentry Work Experience and Team Dynamics (4.00-6.00)
12.00-18.00 hours lab
Grading: Pass/No Pass Only
Students are in a registered apprenticeship program. Students will advance their education and career goals through supervised on-the-job training in the carpentry trade. Students will work toward job-related learning objectives and reflect on their progress. Students will also explore team dynamics at their worksite, drawing on concepts from group relations theory.

AP WE 732 Carpentry Work Experience and Organizational Culture (4.00-6.00)
12.00-18.00 hours lab
Grading: Pass/No Pass Only
Students are in a registered apprenticeship program. Students will advance their education and career goals through supervised on-the-job training in the sheet metal trade. Students will work toward job-related learning objectives and reflect on their progress. Students will also explore the organizational culture of their worksite, drawing on concepts from organizational culture theory.

AP WE 733 Carpentry Work Experience and Industry Exploration (4.00-6.00)
12.00-18.00 hours lab
Grading: Pass/No Pass Only
Students are in a registered apprenticeship program. Students will advance their education and career goals through supervised on-the-job training in the sheet metal trade. Students will work toward job-related learning objectives and reflect on their progress. Students will also begin building a professional network in their desired field to support career mobility.

AP WE 751 Electrician Work Experience and Team Dynamics (4.00-6.00)
12.00-18.00 hours lab
Grading: Pass/No Pass Only
Students are in a registered apprenticeship program. Students will advance their education and career goals through supervised on-the-job training in the electrician/inside wireman trade. Students will work toward job-related learning objectives and reflect on their progress. Students will also explore team dynamics at their worksite, drawing on concepts from group relations theory.

AP WE 752 Electrician Work Experience and Organizational Culture (4.00-6.00)
12.00-18.00 hours lab
Grading: Pass/No Pass Only
Students are in a registered apprenticeship program. Students will advance their education and career goals through supervised on-the-job training in the electrician/inside wireman trade. Students will work toward job-related learning objectives and reflect on their progress. Students will also explore the organizational culture of their worksite, drawing on concepts from organizational culture theory.

ARAB-Arabic

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ARAB 101 Arabic I (5.00)
5.00 hours lecture - 1.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the first semester of Arabic. This elementary level course is a study of the Arabic language and Arabic-speaking cultures, with emphasis on the development of communicative skills and basic structures. Course combines in-class instruction and practice with self-paced study in the World Languages Laboratory. This beginning-level course is for students with no previous coursework in Arabic.

ARAB 102 Arabic II (5.00)
5.00 hours lecture - 1.00 hours lab
Prerequisite: ARAB 101; two years of high school Arabic
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the second semester of Arabic. This elementary level course is a study of the Arabic language and Arabic-speaking cultures, with continued emphasis on the development of communicative skills and basic structures. Course combines in-class instruction and practice with self-paced study in the World Languages Laboratory.

ARAB 201 Arabic III (5.00)
5.00 hours lecture - 1.00 hours lab
Prerequisite: ARAB 102; three years of high school Arabic
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the third semester of Arabic. This intermediate level course is a study of the Arabic language and Arabic-speaking cultures, focusing on intermediate level structures and readings of culturally relevant authentic materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in Arabic. Course combines in-class instruction with self-paced study in the World Languages Laboratory. Class is largely conducted in Arabic.

ARCH-Architecture

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ARCH 105 Basic Architectural Drafting (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
An introduction to architectural hand drafting and sketching including graphic delineation, lettering, construction theory, construction details, and building codes as related to the development of working drawings for residential design.

ARCH 120 Architectural History (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An overview of the architectural history of Egyptian, Mesopotamia, Aegean and Greek, Roman and Byzantine, Romanesque and Gothic, and the Renaissance and Baroque periods. Pictorial representation and visual studies of these structures will be taught through sketching and student presentation.

ARCH 121 Multicultural Architectural History (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A comparative study of the architecture of cultures outside the Western main-stream including Pre-Columbian America, India and Southeast Asia, China and Japan, Russia and Eastern Europe; and the Moslem Empires. Special emphasis on the cultural forces and conditions which shaped and evolved the architecture. Pictorial representation and visual studies of these structures will be taught through sketching and student presentation.

ARCH 122 History of Architectural Theory (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A study and analysis of the concepts and philosophies that have influenced or been the basis of architectural form from the Classical period to the present. The analysis will include the use of drawing and model-building tools to gain an understanding of these principles applied to specific structures throughout history.

ARCH 135 Architectural Materials and Methods of Construction (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
A hands-on study of the physical samples of building construction, field visits, and permit processing of projects.

ARCH 145 Designing for Communication and Presentation (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: ARCH 150
Transferability: UC/CSU
Grading: Graded Only
A drawing, sketching and design exploration of complex architectural modeling including theory, principles and techniques of pictorial drawing, perspective projection, obliques, isometrics, shades, shadows and color. Presentation by hand sketching, AutoCAD, Photoshop and Sketchup tools will be used.

ARCH 150 Beginning Computer Aided Drafting (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: ID 150
An introduction to beginning computer aided drafting for architecture and interior design applications using Windows based AutoCAD software and IBM compatible computers. Beginning techniques in the operation of CAD software, design processes and editing techniques, storage and retrieval of drawings, professional presentation and plotting techniques.

ARCH 160 Environmental Architecture and Design (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Graded Only
Introduction to the theory and application of bio-climate adaptive architectural design in small scale buildings. Includes effective energy use, solar geometry, environmental measurements, heat flow, heat transfer, and thermal masses. Emphasis on design and construction principles for lighting, passive shading, heating, cooling and ventilating envelope load-dominated buildings.

ARCH 196 Special Problems in Architecture (1.00-3.00)
3.00-9.00 hours lab
Transferability: CSU
Grading: Graded Only
Designed to enrich the student's experience within the Architecture program and is of a research or special project nature. Content to be determined by the need of the student under signed contract with the instructor.

ARCH 197 Architecture Topics (1.00-8.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Architecture. See class schedule for specific topic covered. Course title will designate subject.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

ARCH 200 Advanced Visualization in Design (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Advanced techniques in the operation of 3D software for architectural applications. Preparation of various architectural renderings, digital walk-walkthroughs, QR, "Quick Response", codes and VR, "Virtual Reality", for an immersive experience. The students will be exposed to case studies, of architecture, from around the world. We will review the construction methodology that makes each one of these building typologies unique. The instructors will engage with the students in both a group setting and one-on-one. The students are expected to make unique building concepts, using three-dimensional software, that highlight their own personal design aesthetic and multicultural research.

ARCH 202 Introduction to Revit Architecture (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Preparation of basic 3D architectural information models and BIM. Manipulation for preparation of individual architectural working drawings, including: dimensioned floor plans, building sections, elevations, etc. using Revit software.

ARCH 204 Advanced Revit (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ARCH 202
Transferability: CSU
Grading: Grade/Pass/No Pass
Advanced applications of Revit software to build complex "Building Information Models" (BIM), including structural frames and beams, preparation of schedules, architectural and structural details, HVAC component integration and renderings.

ARCH 215 Design Studio IA (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to Architectural form in two and three dimensional compositions, design concepts, and applications through the study of abstract spatial constructions. Development of soft skills and presentation skills culminating in a juried review.

ARCH 216 Design Studio IB (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Development of spatial compositions in relationship to site and context. Development of soft skills and presentation skills culminating in a juried review.

ARCH 217 Design Studio IIA (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Development of architectural design through program analysis, context and site analysis and properties of materials. Development of soft skills and presentation skills culminating in a juried review.

ARCH 218 Design Studio IIB (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Programming schematic designs and design development of a non-commercial building. Development of soft skills and presentation skills culminating in a juried review.

ARCH 295 Architectural Internship (3.00)
10.00 hours lab
Transferability: CSU
Note: May be taken up to 4 times for up to 12.00 total units
Grading: Grade/Pass/No Pass
An architectural internship familiarizes you with the day-to-day operations of an architectural firm. You'll get an around-the-clock view of the office, with your duties ranging from assisting in aspects of architectural design to making client presentations and working with a construction team. You may also assist with general logistics and research rules pertaining to design and construction.

ART-Art

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ART 100 Introduction to Art (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Promotes an understanding and appreciation of art through slide lectures and discussion. For non-art majors.

ART 101 Methods and Materials (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to the aesthetic and technical potential of a variety of materials and methods basic to various art disciplines. Concentration on the skills needed to use these materials in a two and three dimensional art.

ART 102 Foundations of Drawing (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to the principles, elements, and practices of drawing, this course explores a wide range of subjects and drawing media. Emphasis is placed on perceptual drawing, developing observational skills, technical proficiency, and creative engagement with various materials and techniques.

ART 103 Intermediate Drawing (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 102
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID ARTS 205
Exploration of artistic concepts, styles, and creative expression related to intermediate-level drawing, focusing on complex subject matter and concepts using a variety of drawing mediums, techniques, and methodologies. Builds on fundamental drawing skills to develop personalized approaches to content and materials in exercises covering multiple historical and contemporary approaches to drawing.

ART 104 Design and Composition (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID ARTS 100
Introduction to the concepts, applications, and historical references related to two-dimensional art and composition, including the study of the basic principles and elements of line, shape, texture, value, color and spatial illusion. Development of a visual vocabulary for creative expression through lecture presentations, studio projects, problem solving, and written assignments.

ART 105 Three-Dimensional Form and Design (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Basic instruction in sculptural forms and structures. Charts the development of spacial relations from point to line to plane to volume to complex forms and materials. A variety of media is explored.

ART 106 Life Painting (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Examines the use of oil, acrylic or watercolor in modeling the human form. Particular attention will be placed on color mixing, drawing and paint application.

ART 120 Foundations of Life Drawing (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to drawing the human figure from observation using a wide variety of drawing media and techniques. Topics include an introduction to human anatomy and the historical and contemporary roles of figure drawing in the visual arts. Students in this course will learn both descriptive and interpretive approaches to drawing the figure.

ART 121 Intermediate Life Drawing (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 120
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An advanced investigation of the human figure as the primary subject of composition in historical and contemporary art. Developed for the advanced painting or illustration majors to aid in the preparation of entry portfolios required for admittance to specialized private four year institutions.

ART 125 Introduction to Portraiture (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to portraiture. Special emphasis is placed on the historical and contemporary role of portraiture in art. Techniques range from traditional approaches to expressive application of drawing and painting media.

ART 135 Ceramics I (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to basic forming techniques in clay and various surface treatments.

ART 136 Ceramics II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 135
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Advanced studies in handbuilding and wheel throwing techniques. Continuing study of various surface techniques. Techniques of glaze and facility maintenance.

ART 138 Ceramic Surface Decoration (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: ART 135; ART 136; ART 250
Transferability: CSU
Grading: Grade/Pass/No Pass
A study of ceramic surface treatments and decorative techniques.

ART 140 Foundry Techniques in Sculpture I (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 105
Transferability: CSU
Grading: Grade/Pass/No Pass
Theory and practice in casting skills using foundry techniques.

ART 145 Design in Mixed Media (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Design and production of useful "one of a kind" or "limited edition" objects of art. Attention to the visual as well as structural character of chosen materials. Media may include wood, metal, fibers, plastics, and bone and leather alone or in combination.

ART 147 Design in Enamels (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: ART 104
Transferability: CSU
Grading: Grade/Pass/No Pass
Exploration of the creative and aesthetic possibilities of enameling. Principles and techniques in two- and three- dimensional designs.

ART 150 Jewelry and Metalsmithing Design I (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Projects in two- and three-dimensional jewelrymaking and metalsmithing. Study of the relationship of design to materials and of contemporary metal working techniques.

ART 151 Jewelry and Metalsmithing Design II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 150
Transferability: CSU
Grading: Grade/Pass/No Pass
Exploration of manipulation of metal and surface decoration including stone setting. May be taken two times.

ART 155 Stained Glass I (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 104
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to the materials and processes involved in the creation of flat glass objects. Emphasis on design potential and creative possibilities of the medium.

ART 156 Glass Casting I (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
This is a beginning level glass casting class. The course will address technical approaches and artistic applications of glass using kilnforming processes of casting, fusing, and slumping.

ART 160 Glassblowing/Glassforming I (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
An introductory course exploring creative applications and potential of glass as a means for artistic expression. Through hands-on material/process and artistic research students will gain an understanding of glassblowing and glassforming as an artist's medium.

ART 163 Arts of Asia (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A survey of the visual arts from China, Southeast Asia, India, Japan and Korea, from the prehistoric to the present. Students will gain an understanding of the major monuments of Asian art within their historical, social, religious, and political frameworks.

ART 164 Arts of Africa, Oceania and the Americas (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
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A survey of the visual arts from Africa, Oceania and the Americas, from the prehistoric to the present. Students will gain an understanding of the major monuments of African, Oceanic, and South, Central, and North American art within their historical, social, religious, and political frameworks.

ART 165 History of Art I - Survey of Western Art (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The art forms and styles of Western man from the Paleolithic period through Medieval Gothic. Emphasis on the contribution of religion, social and political structures, heritage, and inter-cultural contacts as they influence changes in form and style.

ART 166 History of Art II - Survey of Western Art (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The art forms and styles of Western man from the Renaissance to the present. Emphasis on the style of individual artists and national styles as well as the contribution of religious, social, and political influences. Focus on European art, but with discussion of American art and architecture, as well as influences from non-Western art and cultures.

ART 169 Survey of Modern Art (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course provides an overview of art and architecture from the Western modern period of the 19th and 20th centuries.

ART 182 Introduction to Arts Management (3.00)
9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: DNCE 182, AMS 182, MUS 182, TA 182
An introduction to the principles and practices of arts management through an interdisciplinary study of management topics in the visual and performing arts.

ART 183 Internship in Arts Management (3.00)
9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: DNCE 183, MUS 183, TA 183, AMS 183
Practical experience in arts management in the visual and performing arts.

ART 197B Topics in Art - Painting (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Short and extended term lecture workshops or laboratory courses in various specialized aspects of painting.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. May be transferable to UC upon UC's review of the course syllabus.

ART 197C Topics in Art - Glass (0.50-3.00)
0.50-3.00 hours lecture - 1.50-9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Short and extended term lecture workshops or laboratory courses in various specialized aspects of glass.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

ART 197D Topics in Art - Ceramics (1.00-3.00)
1.00-3.00 hours lecture - 3.00-9.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Short and extended term lecture workshops or laboratory courses in various specialized aspects of ceramics.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. May be transferable to UC upon UC's review of the course syllabus.

ART 197E Topics in Art - Sculpture (0.50-3.00)
0.50-3.00 hours lecture - 1.50-9.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Short and extended term lecture workshops or laboratory courses in various specialized aspects of sculpture.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. May be transferable to UC upon UC's review of the course syllabus.

ART 197F Topics in Art - Drawing (0.50-3.00)
0.50-3.00 hours lecture - 1.50-9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Short and extended term lecture-workshops or laboratory courses in various aspects of drawing techniques.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

ART 197G Topics in Art - Computer Art (0.50-3.00)
0.50-3.00 hours lecture - 1.50-9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Short and extended term lecture-workshops or laboratory courses in which a teacher utilizes and teaches special computer hardware/software relationships and processes to produce art.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

ART 197H Topics in Art - General (0.50-3.00)
0.50-3.00 hours lecture - 1.50-9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Short and extended term lecture-workshops or laboratory courses in various aspects of art. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

ART 200 Color Theory (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Investigations into the phenomenon of color and its use in art. Problems involving color and design in various media, including acrylics and collage. Exploration of the role of color in Western art from late 19th Century to the present.

ART 205 Indirect Metal Forming (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 150; ART 260
Transferability: CSU
Grading: Grade/Pass/No Pass
Exploration of indirect metal forming in jewelry and small sculpture. Projects in lost wax centrifugal and gravity casting, electroforming, and metal spraying.

ART 220 Introduction to Painting (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): ART 102
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to principles, elements, and practices of painting. Focus on the exploration of painting materials, perceptual skills and color theory, paint mixing and technique, as well as creative responses to materials and subject matter.

ART 221 Painting (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 220
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Advanced projects in painting concepts and techniques with concentration on individual creative progress and development in the context of art historical, contemporary and non-Western traditions and approaches.

ART 235 Watercolor Painting I (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Fundamental approaches to the use of watercolors and other waterbase paints in creative painting. Concentration on both literal and expressive modes utilizing a variety of subjects.

ART 236 Watercolor Painting II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 235
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Advanced work in watercolor media.

ART 250 Ceramics III (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 136
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Creative and experimental handbuilding, advanced throwing, firing techniques, glaze evaluation, and special research.

ART 255 Foundry Technique in Sculpture II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 140
Transferability: CSU
Grading: Grade/Pass/No Pass
Advanced theory and practices in casting skills using foundry techniques.

ART 260 Sculpture I (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): ART 102; ART 105
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Design and fabrication of expressive three dimensional forms. Exploration of both historical and contemporary sculptural materials with emphasis on 20th Century models of expression.

ART 261 Sculpture II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 260
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Advanced projects in the concept and creation of original sculpture.

ART 265 Ceramic Sculpture I (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 102, or ART 104, or ART 105 and ART 135
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Creative projects and experimentation using clay as the primary material for non-utilitarian expressive forms.

ART 266 Ceramic Sculpture II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 265
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Advanced problems in creative and experimental uses of clay for non-utilitarian expressive forms.

ART 270 Jewelry and Metalsmithing Design III (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 151
Transferability: CSU
Grading: Grade/Pass/No Pass
Continued exploration of the manipulation of metal. Advanced projects in jewelry and metalsmithing.

ART 275 Stained Glass II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 155
Transferability: CSU
Grading: Grade/Pass/No Pass
Creative expression in flat glass. Emphasis on architectural and fine arts application of the medium. Painting, enameling, and etching techniques will be explored in depth.

ART 278 Glass Casting II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 156
Transferability: CSU
Grading: Grade/Pass/No Pass
Intermediate level course provides students with a deeper understanding of glass casting and kilnforming processes. Builds knowledge and techniques to develop individual artistic sensibilities with kiln glass.

ART 280 Glassblowing/Glassforming II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 160
Transferability: CSU
Grading: Grade/Pass/No Pass
Intermediate level creative exploration and research in fine art applications of hot and cold glass forming techniques.

ART 290 Glassblowing/Glassforming III (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ART 280
Transferability: CSU
Grading: Grade/Pass/No Pass
An advanced level course exploring creative applications of glass as a professional practice. Emphasis is placed on honing skills and techniques for producing one-of-a-kind objects and production processes. Through hands-on experience, students will gain a deeper understanding of glassblowing and cold glassforming processes for developing unique vessels and sculpture. Provides information on presentation and documentation of glass art relevant to building a portfolio.

ART 295 Directed Study in Art (1.00-3.00)
3.00-9.00 hours lab
Prerequisite: A minimum grade of 'C' in 18 units of college-level art including:; ART 102; ART 104, or ART 105; ART 165 and ART 166 and instructor's approval of proposed project or research.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Independent study for advanced students dealing with projects or research in areas not covered by regular classes. Students will work under the guidance of an instructor.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

ART 296 Special Projects (1.00-3.00)
1.00-3.00 hours lecture - 3.00-9.00 hours lab
Prerequisite: Six units of college-level course work in a specialized area of art and instructor's approval of the proposed project.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A course for the student who has demonstrated a proficiency in art and wishes to work beyond existing classes or desires to pursue a project which does not fit into the context of existing classes. Students will work directly with an instructor.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

ARTD-Art-Design

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ARTD 100 Graphic Design I (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Design principles as they apply to graphic communication. Abstract and pictorial design for the printed media. Film and architectural signage. Lettering is applied as an abstract design element.

ARTD 150 Digital Concepts and Techniques in Art (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An overview of vector based an pixel based computer applications, and how they are used in a creative environment. Understanding of the underlying logic of computer software will be taught with an emphasis on the role of the computer in all forms of modern art-making. Students will learn how to use the computer as a tool effectively while developing their own method of creating digital artwork. Cross - platform issues will be addressed, as well as file preparation for various output media.

ARTD 200 Graphic Design II - Lettering and Layout (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: ARTD 100; **Recommended Preparation:** ARTD 150
Transferability: CSU
Grading: Grade/Pass/No Pass
The study of the historical roots and nomenclature of lettering forms and the development of grid systems to aid in the development of successful layout designs. Design and assembly utilizing both hand skills and computer software will be taught.

ARTD 210 Typography Design (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: ARTD 150
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to the historical roots and contemporary technology of typography. Provides a critical analysis of technical processes and elements through assignments that define its symbolic and communicative aspects.

ARTD 220 Motion Design (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
An introduction to the concepts and techniques of animation and multimedia for personal computers using After Effects. Emphasis will be placed on the role of the artist and in the development process and as a key link in determining the success of the final project.

ARTD 240 3D Printing for Artists (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: ARTI 246
Transferability: CSU
Grading: Grade/Pass/No Pass
An overview of processes and techniques of 3D printing and its specific application towards both the commercial and fine arts.

ARTI-Art-Illustration

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ARTI 100 Concept Sketching (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Visual concept development through dynamic sketching, ranging from preparatory to presentation drawings. Included is the study of perspective and drawing of mechanical and natural forms and environments by the use of line and value. Emphasis is placed on the progressive development of visual ideas.

ARTI 210 Illustration I - Rendering Techniques (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Content reflects the types of assignments an illustrator may encounter in the industry, using a variety of traditional media and techniques. Contemporary principles of concept development and problem solving will be explored, using stylization, design, composition, and color as methods of communication. Accurate analysis, historical reference, oral and graphic presentation of ideas, sketches and finished art will be stressed.

ARTI 220 Illustration II, Digital Techniques (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
A course for advanced illustration students that focuses on creating non-traditional professional level commercial artwork. Media experimentation, and combination of traditional methods with digital applications is used to create finished pieces that are conceptually and visually interesting and strong. Students are encouraged to develop and strengthen personal and distinctive approaches to Illustration. Portfolio preparation for admission to high quality 4-year art and Design programs, or for entry into to the work force will be examined and applied. Students will also gain insight into self-promotion and marketing strategies. Contracts, self-employment issues and billing procedures will be explained.

ARTI 246 Digital 3D Design and Modeling (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: ARTD 150
Transferability: CSU
Grading: Grade/Pass/No Pass
Fundamentals of computerized 3-D modeling and design. Hands on experience with modeling, lighting, developing texture maps and rendering.

ARTI 247 Digital 3D Design and Animation (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: ARTD 220
Transferability: CSU
Grading: Grade/Pass/No Pass
Concepts and techniques of 3-dimensional animation using Maya software. The course will provide an understanding of the production, animation and postproduction process.

ARTI 248 Digital 3D Design and Sculpture (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Concepts and techniques of digital sculpting using ZBrush software. The course will provide an understanding of high detail polygon modeling and the use of mapping techniques to transfer detail to low polygon models.

AS-Africana Studies

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AS 100 Introduction to African American Studies (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is an overview of the Africana Studies discipline including its social and academic origins, goals and development. Emphasis is placed on providing students with an understanding of the fundamental areas of study within the field and of the interdisciplinary approach to studying the African experience in America and the world. Emphasis is placed on the cultural, theoretical and historical formation of the African diaspora with particular emphasis on the creation of 'Black' and 'Blackness' as cultural and political identities. This course is intended for all students interested in general knowledge of the Black experience.

AS 101 African-American History I (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
African-Americans in the history of the U.S. from Africa through Reconstruction with emphasis on the trans-Atlantic slave trade; colonial period; relations between African Americans and Native Americans; African Americans, Native Americans, whites and the creation of "race"; development of plantation system, slavery; gender specific oppression; African Americans, Native Americans, and the Revolution; the constitution; free African Americans in North and South, emerging class distinctions and African American cultures; westward expansion; emergence of sectionalism; African American and white women and abolitionism in the context of the Great Awakening; the anti-slavery movement, including relations to the women rights movement; the American West and connections between Mexican/American and African American history; African Americans and the Civil War; Reconstruction and post-war adjustments, including role of the African American middle class and working class.

AS 102 African-American History II (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cultural, economic, and political development of African Americans in the United States since Reconstruction. Emphases on post-Civil War difficulties and accomplishments, e.g. racial segregation and repression, community formation and responses to anti-black racism; the Westward Movement; African Americans and Native Americans; industrial development; impact of World Wars I and II on urbanization and social mobility; Great Migration; activism; expansion of government activity; Civil Rights Era and modern militancy; relations with Latinos/as and other ethnic/racial communities; post-Civil-Rights era and debates about black identity, black gender identities, women's rights, LGBTQ rights, class differentiation, African diasporic engagement; Black identity in the 21st century.

AS 120 Introduction to Africana Social Institutions and Behavior (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Social institutions and their influence on the behavior of Africana peoples. Analysis of facts, principles, and concepts basic to understanding human behavior.

ASL-American Sign Language

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ASL 97 Topics in American Sign Language (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Grading: Grade/Pass/No Pass
The course objectives will depend on the specific topic covered. A set of objectives will be developed for each topic class and included in an outline developed by the instructor. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

ASL 100 American Sign Language I (4.00)
4.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to the practice and use of American Sign Language. Students will learn basic vocabulary and grammatical structure of American Sign Language and Deaf culture as used in the American Deaf community.

ASL 100L American Sign Language I (Lab) (0.50-1.00)
1.50-3.00 hours lab
Grading: Pass/No Pass Only
Individualized program intended for students who wish to practice, use, and improve their beginning ASL skills. Video, software, and workbooks in the American Sign Language/English Interpreting Lab can help students improve understanding of basic ASL sentences and stories. Through the use of video recording equipment, students will have the opportunity to practice expressive signing skills. Lab activities are designed to provide students the opportunity to practice vocabulary and syntax taught in ASL 100.
Notes:
Lab activities are designed to provide students with the opportunity to practice, use, and improve vocabulary and syntax taught in ASL 100.Through the use of video recording equipment, students will have the opportunity to practice expressive signing skills and improve their understanding of basic ASL sentences and stories.

ASL 101 American Sign Language II (4.00)
4.00 hours lecture
Prerequisite: ASL 100
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the second semester of American Sign Language. This elementary level course is a study of the American Sign Language as it is used in the Deaf community and American Deaf culture, with continued emphasis on the development of communicative skills and basic structures.

ASL 101L American Sign Language II (Lab) (0.50-1.00)
1.50-3.00 hours lab
Corequisite (Course required to be taken concurrently): ASL 101
Transferability: UC/CSU
Grading: Pass/No Pass Only
Individualized program intended for students who wish to practice, use, and improve advanced-beginning ASL skills. Video, software, and workbooks in the American Sign Language-English Interpreting Lab can help students improve understanding of basic ASL sentences and stories. Through the use of video recording equipment, students will have the opportunity to practice expressive signing skills. Lab activities are designed to provide students the opportunity to practice vocabulary and syntax taught in ASL 101.
Notes:
This course is the second semester of American Sign Language. This elementary level course is a study of the American Sign Language as it is used in the Deaf community and American Deaf culture, with continued emphasis on the development of communicative skills and basic structures.

ASL 105 Fingerspelling and Number Systems (3.00)
3.00 hours lecture
Prerequisite: ASL 101
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to the American Manual alphabet (fingerspelling), including numbers, loan signs, acronyms and abbreviations commonly used in the Deaf community. Extensive drills and practice in both expressive and receptive skills.

ASL 110 Awareness of Deaf Culture (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to American Deaf Culture, the history, the community, and the language. Deaf cultural values, characteristics, and dynamics will be discussed as well as issues related to minority dynamics, the double/multiple minority experience, including but not limited to, Deaf African-Americans, Deaf Latinas/Latinos, Deaf Women, Deaf gays/lesbians, Deaf-blind, Deaf senior citizens, and the multiple combinations of these. Organizations and individual perceptions of self in relation to group identity, along with political views as examined through articles, books, and videotaped interviews will be studied.

ASL 115 Perspectives on Deafness (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
A general orientation to the Deaf community with an overview of the historical, linguistic, philosophical, psychological, educational and social aspects of the Deaf.

ASL 197 Topics in American Sign Language (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in American Sign Language. See class schedule for specific topic covered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

ASL 205 American Sign Language III (4.00)
4.00 hours lecture
Prerequisite: ASL 101
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Students will continue to develop ASL communication skills to participate in signed interactions using vocabulary and grammar appropriate to third semester language learning. This class will immerse students in a conversation-focused environment where they can safely practice culturally appropriate means of ensuring communication access for all. ASL is the primary language of instruction.

ASL 205L American Sign Language III (Lab) (0.50-1.00)
1.50-3.00 hours lab
Prerequisite: ASL 101
Grading: Pass/No Pass Only
Lab activities are designed to provide students with the opportunity to practice, use, and improve vocabulary and syntax taught in ASL 205. Through the use of video recording equipment, students will have the opportunity to practice expressive signing skills and improve their understanding of intermediate ASL sentences and stories.
Notes:
Lab activities are designed to provide students with the opportunity to practice, use, and improve vocabulary and syntax taught in ASL 205. Through the use of video recording equipment, students will have the opportunity to practice expressive signing skills and improve their understanding of intermediate ASL sentences and stories.

ASL 206 American Sign Language IV (4.00)
4.00 hours lecture
Prerequisite: ASL 205
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This class focuses on advanced language, phrasing, and communication skills in American Sign Language along with continued development of Deaf cultural awareness and cross-cultural functionality. Students will adhere to Deaf cultural values and communication norms to negotiate signing environments. Eye contact when signing with a partner is critical. In addition to activities and conversation practice, students can use technology and workbooks to demonstrate and assess use of basic ASL grammar. Class activities are designed to provide students the opportunity to practice vocabulary and grammar taught in ASL 205 while adhering to Deaf communication norms. At this level, students will practice interactions with peers as well as with the teacher or members of the Deaf community. Students will be introduced to the features important for more formal presentations of narratives or short expository explanations that compare, contrast, and/or explain issues.

ASL 206L American Sign Language IV (Lab) (0.50)
1.50 hours lab
Grading: Grade/Pass/No Pass
This course is the fourth semester of American Sign Language. This advanced level course is a study of American Sign Language as it is used in the Deaf community and American Deaf culture, with continued emphasis on the development of advanced communicative skills and grammatical structures.
Notes:
This course is the fourth semester of American Sign Language. This advanced level course is a study of American Sign Language as it is used in the Deaf community and American Deaf culture, with continued emphasis on the development of advanced communicative skills and grammatical structures.

ASL 208 Interpreting as a Profession (3.00)
3.00 hours lecture
Prerequisite: ASL 206
Transferability: CSU
Grading: Grade/Pass/No Pass
This course is designed to develop insights about the profession of interpreting. Topics covered may include, but are not limited to, the history of the field, cross-cultural dynamics, national testing standards, preparation for certification, and knowledge of situational and professional ethics.

ASL 210 Discourse Analysis (4.00)
4.00 hours lecture
Prerequisite: ASL 206; **Prerequisite: (Completion of, or concurrent enrollment in):** ASL 110; **Recommended Preparation:** ASL 115 and ENGL C1000, or ENGL C1000E, or ESL 110; **Corequisite (Course required to be taken concurrently):** ASL 210L
Transferability: CSU
Grading: Grade/Pass/No Pass
This course provides the foundational knowledge and skills necessary to perform ASL-English translation and interpreting tasks. Emphasis will be on developing proficiencies of professional discourse and analysis of both American Sign Language and English discourse in a variety of registers. Through evidence-based analysis of ASL and English texts and/or ASL-English translations, the effectiveness of interpreting work samples will be evaluated using terminology conventional within the interpreting profession. Primary language of instruction for class lectures and discussion will be ASL.

ASL 210L Discourse Analysis Lab (1.00)
3.00 hours lab
Prerequisite: ASL 206
Transferability: CSU
Grading: Grade/Pass/No Pass
The ability to interact professionally and demonstrate effective presentation skills in all working languages is fundamental to effective translation and interpretation. Media available on campus and online will enable students to develop proficiencies in ASL and in English. In this course, students will utilize technology to create accessible videos and to analyze linguistic features of discourse in ASL and/or in English.

ASL 211 Interpreting II (4.00)
4.00 hours lecture
Prerequisite: ASL 210 and **Prerequisite: (Completion of, or concurrent enrollment in):** ASL 110 and **Corequisite (Course required to be taken concurrently):** ASL 211L and **Recommended Preparation:** ENGL C1000, or ENGL C1000E, or ESL 110 and ASL 208
Transferability: CSU
Grading: Grade/Pass/No Pass
Designed to improve student ability to perform the components involved in the process of interpreting as learned in Interpreting I. Primary emphasis is placed on the development of cognitive and linguistic skills, consecutive interpretation, and interpretation of interactive video dialogues between Deaf and hearing people. Skills learned will be applied to basic simultaneous interpreting tasks. Further development of language fluency in both American Sign Language (ASL) and English should occur as a result of this course, as instruction will occur in both languages.

ASL 211L Interpreting II Lab (1.00)
3.00 hours lab
Corequisite (Course required to be taken concurrently): ASL 211
Transferability: CSU
Grading: Grade/Pass/No Pass
Utilize technology and community resources to develop beginning-intermediate interpreting skills, American Sign Language and/or English language proficiencies, and understanding of and respect for Deaf cultural values.

ASL 215 Interpreting III (4.00)
4.00 hours lecture
Prerequisite: ASL 211; **Corequisite (Course required to be taken concurrently):** ASL 215L; **Recommended Preparation:** ENGL C1000, or ENGL C1000E, or ESL 110 and ASL 220
Transferability: CSU
Grading: Grade/Pass/No Pass
This course is a continuation of Interpreting II. Primary emphasis is placed on the development of simultaneous ASL/English interpreting/transliterating tasks. Further development of language fluency in both American Sign Language (ASL) and English should occur as a result of this course. Development of multi-tasking skills enables students to begin interpreting more complex discourse such as that in a higher register or of substantive cognitive-academic content. Students are expected to have attained a reasonable level of competency in both ASL and English in order to have access to class lectures and participate fully in class discussions and activities, as instruction will occur in both languages.

ASL 215L Interpreting III Lab (1.00)
3.00 hours lab
Corequisite (Course required to be taken concurrently): ASL 215
Transferability: CSU
Grading: Grade/Pass/No Pass
Utilize technology and community resources to develop beginning-intermediate interpreting skills, American Sign Language and/or English language proficiencies, and understanding of and respect for Deaf cultural values.

ASL 216 Interpreting IV (4.00)
4.00 hours lecture
Prerequisite: ASL 215; **Corequisite (Course required to be taken concurrently):** ASL 298; **Recommended Preparation:** ENGL C1000
Transferability: CSU
Grading: Grade/Pass/No Pass
This course is a continuation of Interpreting III. Emphasis is placed on the enhancement of simultaneous ASL/English interpreting of complex discourse through increased fluency, speed and accuracy. Students will improve equivalence between source and target language while performing simultaneous interpreting and/or transliterating tasks. Students are expected to have attained a reasonable level of competency in both ASL and English in order to have access to class lectures and participate fully in class discussions and activities, as instruction will occur in both languages.

ASL 216L Interpreting IV Lab (1.00)
3.00 hours lab
Corequisite (Course required to be taken concurrently): ASL 216
Transferability: CSU
Grading: Grade/Pass/No Pass
Utilize technology and community resources to develop intermediate interpreting skills, American Sign Language and/or English language proficiencies, and understanding of and respect for Deaf cultural values. Emphasis is placed on the enhancement of simultaneous ASL/English interpreting of complex discourse through increased fluency, speed and accuracy. Students will improve equivalence between source and target language while performing simultaneous interpreting and/or transliterating tasks by making principled choices about meaning and impact.

ASL 220 Specialized Settings Of Interpreting (3.00)
3.00 hours lecture
Prerequisite: (Completion of, or concurrent enrollment in): ASL 206
Transferability: CSU
Grading: Grade/Pass/No Pass
This course discusses professional, ethical, technical, and logistical factors involved when interpreting between American Sign Language and spoken English in various settings. Specialized settings introduced in this course include: educational, mental health, legal, medical, social services, business, religious, platform, and performing arts. Telephone, Deaf-blind and oral interpreting will also be discussed. The primary language of instruction will be American Sign Language.

ASL 298 Fieldwork in Interpreting (1.50)
4.50 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): ASL 216
Transferability: CSU
Grading: Grade/Pass/No Pass
The purpose of this course is for students to apply skills and knowledge gained from previous interpreting coursework to actual interpreting assignments. Students will begin interpreting or transliterating, with appropriate supervision and in appropriate situations, for actual assignments. Students will have opportunities to observe qualified working interpreters in a variety of settings. Community service and classroom seminar discussions on professional, ethical, technical and logistical aspects of interpreting will also be included in course content. Students must demonstrate adequate ASL to English and English to ASL performance on an exit exam.

ASTR-Astronomy

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ASTR 100 Principles of Astronomy (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to the science of astronomy and the nature of the universe. Topics include observation and movements of celestial bodies, exploration of celestial phenomena, the physics of light, and the nature of stars and galaxies.

ASTR 105L Introduction to Astronomy Laboratory (1.00)
3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): ASTR 100, or ASTR 120
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Exploration of the techniques used in astronomy to determine the physical properties of stars and galaxies. The physical nature of light and the optical principles of a telescope are also explored. Measurements of planetary and stellar phenomena are used to investigate the astronomical methods of determining the size, composition and age of the universe.

ASTR 120 Planets, Moons, and Comets (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: GEOL 120
The astronomy and geology of the solar system, observations, dynamics, relativistic ideas, including theories of formation and evolution. Comparative survey of the atmospheres, surface features and interiors of planets and satellites. Minor objects, such as comets and asteroids, will be included.

ASTR 197 The Universe: Contemporary Topics in the Space Sciences (1.00-3.00)
1.00-3.00 hours lecture - 3.00-9.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Selected topics in astronomy and space sciences, emphasizing current research and discoveries. Refer to the Class Schedule for specific topics covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. May be transferable to UC upon UC's review of the course syllabus.

ASTR 210 Life in the Universe (3.00)
3.00 hours lecture
Prerequisite: ASTR 120, or ASTR 100
Transferability: CSU
Grading: Grade/Pass/No Pass
A scientific exploration of life in the universe using the findings of astronomy, biology, and chemistry. Topics include the development of life and its environments on Earth, the search for life in the cosmos, interstellar communications and travel, and the effects of contact.

ASTR 295 Directed Study in Astronomy (1.00-3.00)
3.00-9.00 hours lab
Prerequisite: ASTR 100; ASTR 120
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Individual study in field, library, or laboratory for interested students.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

AT-Automotive Technology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

AT 100 Introduction to Automotive Technology (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
This course is an introduction for students with minimal to no background in the automotive field. The course covers the basic theory and operation of the automobile, and related systems such as engine cooling, lubrication, fuel injection, ignition, emissions, and more. The introduction to basic electricity covers batteries, starting, and charging systems. Through laboratory practices, this course also offers a practical introduction to automotive tools, diagnostic equipment, and minor maintenance and repair.

AT 105 Automotive Electricity and Electronics (2.00)
1.00 hours lecture - 3.00 hours lab
Corequisite (Course required to be taken concurrently): AT 105L; **Prerequisite: (Completion of, or concurrent enrollment in):** AT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
This course offers an in-depth introduction to automotive electrical and electronic systems, basic electrical theory, wiring diagrams, body control modules, and computer networks. Hands-on laboratory practices using electrical/electronic testing equipment for troubleshooting and repair.

AT 105L Automotive Electricity Computer Training Lab (1.00)
3.00 hours lab
Corequisite (Course required to be taken concurrently): AT 105
Transferability: CSU
Grading: Grade/Pass/No Pass
Students will use training computers to complete assignments in automotive electricity. Hi-tech automotive simulators and trainers will be used to enhance student learning. Software will also be used for Automotive Service Excellence (ASE) certification preparation.

AT 110 Automotive Engine Performance (3.00)
2.00 hours lecture - 3.00 hours lab
Corequisite (Course required to be taken concurrently): AT 110L; **Prerequisite:** AT 100 and AT 105
Transferability: CSU
Grading: Grade/Pass/No Pass
This course emphasizes the description and operation of conventional and electronic ignition systems, sensors and actuators, and computerized engine controls. Laboratory practices will focus on diagnosing engine performance-related concerns and diagnostic trouble codes using testing equipment and scan-tool communications.

AT 110L Automotive Tune Up Computer Training Lab (1.00)
3.00 hours lab
Corequisite (Course required to be taken concurrently): AT 110
Transferability: CSU
Grading: Grade/Pass/No Pass
Students will use training computers to complete assignments in automotive engine performance. Hi-tech automotive simulators and trainers will be used to enhance student learning. Software will also be used for Automotive Service Excellence (ASE) certification preparation. CPL updates 2.25.25 CR

AT 115 Automotive Fuel Injection and Fuel Systems (3.00)
2.00 hours lecture - 3.00 hours lab
Corequisite (Course required to be taken concurrently): AT 115L; **Prerequisite:** AT 100 and AT 105
Transferability: CSU
Grading: Grade/Pass/No Pass
In-depth introduction to fuel management systems and the various fuels currently used in automotive engines, including gasoline multi-port, sequential, and direct injection. Topics also include air-fuel ratio and sensor response. Students will apply technical knowledge through laboratory practices to troubleshoot and diagnose electronic fuel systems.

AT 115L Automotive Fuel Systems Computer Training Lab (1.00)

3.00 hours lab
Corequisite (Course required to be taken concurrently): AT 115
Transferability: CSU
Grading: Grade/Pass/No Pass
Students will use training computers to complete assignments in automotive fuel systems. Hi-tech automotive simulators and trainers will be used to enhance student learning. Software will also be used for Automotive Service Excellence (ASE) certification preparation. CPL updates 2.25.25 CR

AT 120 Automotive Transmissions, Transaxles, and Drive Lines (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: AT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
This course covers the hydraulic and mechanical functions, and repair of automotive transmissions and transaxles. Students will disassemble, inspect, reassemble, and test three-speed conventional transmissions, clutches, universal joints, drive lines, and differentials.

AT 125 Automotive Machining (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
The various testing and machining operations involved in an automotive machine shop. Areas covered include cylinder head service and repair, connecting rod service, cylinder boring and honing, crankshaft service, and various other automotive machining and measuring techniques.

AT 130 Automotive Brake Systems (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): AT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
The hydraulic, mechanical, and electronic functions of modern automotive brake systems. Hands-on laboratory covers conventional and electronic brake systems' troubleshooting, and complete system repair of power, drum, and disc brakes.

AT 135 Automotive Suspension, Wheels, and Steering Systems (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): AT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to front and rear wheel alignment using the latest equipment technology. Topics covered are steering, geometry, turn radius, ball joints, toe track, camber, caster, suspension, bearing service, wheel balance, and tire wear identification.

AT 160 Associated Studies in Automotives (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Applied science and technology as related to the automotive field. Areas covered include metrics, Ohms Law and electron theory, metal alloys and their properties and uses, thermal expansion, gas laws, limits and fits, and friction and torque.

AT 165 Automotive Heating, Ventilation, and Air Conditioning (HVAC) Systems (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): AT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
The principles of operation and servicing of modern automotive air conditioning systems. Lecture and laboratory practices will cover refrigeration, heating, ventilation, ducting, and electrical systems. Students will complete and receive EPA certification in the handling and disposal of refrigerants.

AT 170 Auto Repair Shop Experience (2.00)
6.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
The student gains valuable skill development in the maintenance, repair and diagnosis in automotive technology. The class runs in a similar format to an actual repair shop where students service cars supplied by the Palomar community.

AT 197 Topics in Automotive (0.50-3.00)
0.50-3.00 hours lecture - 1.50-9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in automotive technology. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

AT 210 Automotive Specialized Electronics (3.00)
2.00 hours lecture - 3.00 hours lab
Recommended Preparation: AT 110; **Prerequisite:** AT 100 and AT 105
Transferability: CSU
Grading: Grade/Pass/No Pass
Advanced electronic principles and automotive computer-controlled networks. Identification, diagnosis, repair, and verification of malfunctioning electronic components. Function and operation of semiconductors, diodes, transistors, and capacitors.

AT 215 Automotive Emission Control (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: AT 105; AT 110
Transferability: CSU
Grading: Grade/Pass/No Pass
Advanced Engine Performance theory and diagnoses as it relates to emission control systems and five-gas emission analysis. This course also covers the Level II Smog Check Training, which includes the program rules and regulations from Title XVI of the California Code of Regulations. Students will demonstrate competency using the smog check inspection equipment and demonstrate the ability to perform a full Smog Check. At the successful completion of this course, the student will be awarded a Level II Smog Check Training certificate of completion by the Bureau of Auto Repair, thus completing eligibility to apply for the State examination for a California Smog Inspector License.

AT 225 Automotive Engine Rebuilding (3.00)
2.00 hours lecture - 4.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
The complete rebuilding of at least one automobile engine using the machine tools and techniques of industry.

BIOL-Biology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

BIOL 47 Biology Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Grading: Grade/Pass/No Pass
Topics in Biology. See class schedule for specific topic covered. Course title will designate subject covered.
Notes:
Non-degree Applicable

BIOL 100 Introductory Biology: General Biology (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Basic principles of general biology as they relate to the cellular, organismic, and population levels of organization. Includes cell ultrastructure and function, energy transfer, reproduction, genetics, evolution, diversity of organisms, and ecology.

BIOL 101 General Biology (Lecture) (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Basic principles of general biology as they relate to the cellular, organismic, and population levels of organization. Includes cell ultrastructure and function, energy transfer, reproduction, genetics, evolution, diversity of organisms, and ecology.

BIOL 101L Introductory Biology: General Biology (Laboratory) (1.00)
3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): BIOL 101
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Laboratory exercises in cell structure and function, energy transfer, reproduction, genetics, and ecology.

BIOL 102 Introductory Biology: Pre-Nursing and Allied Health (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Explore the fundamental principles of biological systems, including the chemistry of life, cell structure and function, energy transfer, cell division, and classical and molecular genetics. This course prepares pre-nursing and allied health majors for 200-level biology courses, and strives to make the content accessible by providing support for different learning styles and needs.

BIOL 110 Human Genetics (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Principles of human inheritance including gene transmission, genetic diseases, pedigree analysis, molecular genetics, immunogenetics, and population genetics; relationships to other fields of study will be emphasized.

BIOL 118 Introductory Biology: Ecology (Lecture) (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Basic concepts of evolution, population ecology, community ecology, and ecosystem ecology.

BIOL 118L Introductory Biology: Ecology (Laboratory) (1.00)
3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): BIOL 118
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Provides hands-on experiences with ecological concepts, methods, and problem-solving techniques by using the plants and animals of local communities in their natural settings. The majority of laboratory sessions will be devoted to off-campus field studies.

BIOL 125 Introductory Biology: Botany (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The diversity, structure, and function of major plant groups including cellular metabolism, soil-water relationships, classification, genetics, life cycle patterns, growth, and the basic ecological and evolutionary concepts of botany.

BIOL 126 Introductory Biology: Botany (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The diversity, structure, and function of major plant groups including cellular metabolism, soil-water relationships, classification, genetics, life cycle patterns, growth, and the basic ecological and evolutionary concepts of botany.

BIOL 126L Introductory Biology: Botany (Laboratory) (1.00)
3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): BIOL 126
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A laboratory course in plant biology. Special emphasis on the structure, growth, function, genetics, and life cycles of major plant groups.

BIOL 130 Introductory Biology: Marine Biology (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to marine biology with an emphasis on the adaptations, classification and ecology of marine organisms as well as current issues in marine biology. A survey of local marine organisms and habitats. Participation on field trips as scheduled is required.

BIOL 131 Introductory Biology: Marine Biology (Lecture) (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to marine biology with an emphasis on the adaptations, classification, and ecology of marine organisms as well as current issues in marine biology.

BIOL 131L Introductory Biology: Marine Biology (Laboratory) (1.00)
3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): BIOL 131
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A survey of local marine organisms and local marine habitats. A field trip oriented course; participation on field trips as scheduled is required.

BIOL 135 Introductory Biology: Marine Mammals (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The fundamentals of marine mammal biology are explored. Topics include comparative anatomy, evolution, cladistics, mammalian physiology, ecology and zoogeography, behavior and conservation as they apply to the study of marine mammals.

BIOL 140 Introductory Biology: Zoology (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Principles of animal life and body organization. Structural and functional adaptations of major groups of the animal kingdom from protozoans through mammals. This is a general education course intended for non-science majors.

BIOL 145 Introduction to Anatomy and Physiology (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to the structure and function of human body systems in health and disease. Not recommended for those intending to take BIOL 105, 106, 210, or 211.

BIOL 145L Introduction to Anatomy and Physiology Laboratory (1.00)
3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): BIOL 145
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to the structure and function of human body systems. Includes study of cells, tissues, and human organ systems. Not recommended for those those intending to take BIOL 105, 106, 210, or 211.

BIOL 195A Field Studies in Natural History (1.00-3.50)
0.50-1.00 hours lecture - 1.50-7.50 hours lab
Prerequisite: BIOL 100, or BIOL 101; BIOL 125, or BIOL 126; BIOL 130, or BIOL 131; BIOL 140
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Field studies of plant and animal species encountered in various habitats, including systematics and major structural and functional characteristics of the taxonomic groups to which these species belong, and emphasizing each species' particular adaptations that favor its survival in its natural habitat. See Class Schedule for locality to be visited.

BIOL 195B Field Studies in Ecology (1.00-3.50)
0.50-1.00 hours lecture - 1.50-7.50 hours lab
Prerequisite: BIOL 100, or BIOL 101; BIOL 125, or BIOL 126; BIOL 130, or BIOL 131; BIOL 140
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Field study of the fauna and biota of selected geographic regions, with emphasis placed upon field identification, observation and interpretation of behavioral and ecological interrelationships of living things to their environment and to one another. See Class Schedule for locality to be visited.
Notes:
Fee charged

BIOL 195C Field Study of Native Plants (1.00-3.50)
0.50-1.00 hours lecture - 1.50-7.50 hours lab
Prerequisite: BIOL 100, or BIOL 101, or BIOL 130, or BIOL 131, or BIOL 125, or BIOL 126, or BIOL 140
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Extended field study of the flora of selected geographical areas including habitats, adaptations, and identification of native and naturalized species. See Class Schedule for locality to be visited. Fee charged.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

BIOL 195D Field Study of Birds (1.00-3.50)
0.50-1.00 hours lecture - 1.50-7.50 hours lab
Prerequisite: BIOL 100, or BIOL 101, or BIOL 130, or BIOL 131, or BIOL 125, or BIOL 126, or BIOL 140
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Extended field study of terrestrial and aquatic avifauna of selected habitats, emphasizing identification and observation of native and migratory birds, their behavior, and adaptations. See Class Schedule for locality to be visited.
Notes:
Fee charged

BIOL 200 Foundations of Biology I (4.00)
3.00 hours lecture - 3.00 hours lab
Recommended Preparation: ENGL C1000, or ENGL C1000E, or ESL 110; **Prerequisite:** Completion of intermediate algebra or the equivalent, or eligibility or completion of any course between MATH 110 and 245 (excluding MATH 197, MATH 120, or PSYC/SOC 205, or BUS 204) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This biology course is the first semester of a one-year majors-level sequence. The lecture explores the topics of molecular and cellular biology, including cell structure and function, genetics, metabolism, and evolution. The lab includes various cell and molecular lab techniques and emphasizes the use of the scientific method to design experiments and analyze data.

BIOL 201 Foundations of Biology II (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: BIOL 200
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This biology course is the second semester of a one-year majors-level sequence. The lecture examines the diversity of life emphasizing the integration of structure and function, development, life histories, classification, behavior, and ecology. The lab provides students with the opportunity to observe examples of the organisms discussed in lecture.

BIOL 210 Anatomy (4.00)
2.00 hours lecture - 7.00 hours lab
Prerequisite: BIOL 101 and BIOL 101L; , or BIOL 100, or BIOL 102, or BIOL 200
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Designed to provide a basic understanding of the structure of the human body. Laboratory includes a study of anatomy through cat and organ dissection, skeletal study, use of models and other visual aids.

BIOL 211 Physiology (4.00)
2.00 hours lecture - 7.00 hours lab
Prerequisite: BIOL 210 and Option 1; BIOL 102, or Option 2; BIOL 101 and BIOL 101L and CHEM 100, or CHEM 104, or CHEM 110; or Option 3; BIOL 100 and CHEM 100, or CHEM 104, or CHEM 110; or Option 4; BIOL 200 and CHEM 100, or CHEM 104, or CHEM 110
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Principles of human physiology including laboratory exercises. Deals with physiology of muscle, nerve, circulation, respiration, excretion, digestion, the endocrines and exercise.

BIOL 212 Fundamentals of Microbiology (4.00)
2.00 hours lecture - 7.00 hours lab
Prerequisite: Option 1; BIOL 102, or Option 2; BIOL 101 and BIOL 101L and CHEM 100, or CHEM 104, or CHEM 110; or Option 3; BIOL 100 and CHEM 100, or CHEM 104, or CHEM 110; or Option 4; BIOL 200 and CHEM 100, or CHEM 104, or CHEM 110
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Fundamentals of microbiology including medical aspects of microbiology.

BIOL 295 Directed Study in Life Science (1.00-3.00)
3.00-9.00 hours lab
Prerequisite: Approval of project or research by department chairperson
Transferability: CSU
Grading: Grade/Pass/No Pass
Independent study for students who have demonstrated skills and/or proficiencies in biology subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

BMGT-Business Management

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

BMGT 101 Introduction to Management (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
A leadership course designed to enhance understanding of responsibilities associated with management in business. Topics will cover management styles and human behavior factors associated with managing staff.

BMGT 110 Human Resource Management (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
A survey of the history and present status of human resource management in the United States. Emphasis on modern techniques of recruitment, placement, wage administration, communications, training, labor relations, and employer-employee relationships in modern industry and business.

BMGT 115 Organizational Theory and Design (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Policies and methods of organization in business enterprises of various types and sizes. Functional components of business organization: planning, controlling, coordinating, and directing to meet organizational objectives. Establishing lines of authority and functions of departments or units with emphasis on systems management.

BMGT 121 Operations Management (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course explores the key principles of operations management, focusing on retail management, general operations management, and human resource management within various industries. Students will learn to manage production processes, optimize resource allocation, implement efficient operational strategies, and understand the role of human capital in achieving organizational goals. The course also covers inventory management, supply chain logistics, quality control, and customer service operations, emphasizing the importance of leadership and team management in operational success.

BMGT 130 Management/Leadership Issues (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Examination of current issues in management and leadership including: organizing, staffing, decision making, motivating, communicating, and applying such skills to a business organization. Concepts related to group dynamics, change, conflict, organizational communications, and productivity are explored.

BMGT 153 Small Business Entrepreneurship (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Graded Only
An introduction to the creative and innovative managerial practices of successful entrepreneurship. Developing the necessary understanding to design, start, and manage a successful entrepreneur business. An overview of entrepreneurial process and investigate concepts tools and practices associated with identifying or creating new venture opportunities.

BUS-Business Education

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

BUS 80 Medical Terminology and Anatomy (4.00)
4.00 hours lecture
Grading: Grade/Pass/No Pass
Basic medical terms with emphasis on word analysis and construction. Overview of anatomy and the pathological, diagnostic, therapeutic, and surgical terms related to the body as a whole and the integumentary, digestive, urinary, musculoskeletal, and male reproductive systems.

BUS 82 Medical Insurance Billing and Coding (3.00)
3.00 hours lecture
Recommended Preparation: BUS 80
Grading: Grade/Pass/No Pass
Provides entry level skills in medical insurance, billing, diagnostic and medical procedural coding with CPT and ICD-10-CM guidelines. Includes compiling and abstracting information from the medical record utilizing computer coding techniques and promoting accurate reimbursement of medical claims. Prepares and utilizes health care claim forms.

BUS 84 Healthcare Writing Techniques (2.00)
2.00 hours lecture
Prerequisite: BUS 80
Grading: Grade/Pass/No Pass
Application of writing skills to common writing situations found in various medical settings following HIPAA rules and standards. Includes the writing of medical letters, memos, and emails; medical records including charting and documenting; a variety of medical reports; meeting minutes; research and manuscripts.

BUS 86 Electronic Health Record Applications (2.00)
2.00 hours lecture
Recommended Preparation: BUS 80
Grading: Grade/Pass/No Pass
Application of technology in the health care industry. Includes overview of EHR software; privacy, confidentiality, and security of the EHR; transitioning from paper charts to the EHR; administrative use of the EHR; using the EHR for reimbursement; the EHR role in health promotion and patient education; and, the personal health record and patient advocacy.

BUS 88 Medical Office Administration (3.00)
3.00 hours lecture
Recommended Preparation: BUS 80
Grading: Grade/Pass/No Pass
Designed to prepare students for employment as a medical administrative assistant. Topics include the career of a medical administrative assistant; the health care team; medical law and ethics; patient diversity, communications, appointment scheduling, and reception/registration; patient services of HIM, HIPAA, medical billing, health insurance and benefits (CMS-1500, Tricare, CHAMPVA, COBRA); directing the activities of the medical office (business operations, financial management, and human resource management); and, job search essentials.

BUS 100 Introduction to Business (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Preparation for survival within the global economy. Topics such as small business management, managerial theory, international business, and marketing represent several important class components. Includes strong career guidance component.

BUS 104 Business Information Systems (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
CID-C-ID BUS 140
Examination of information systems and their role in business. Focus on information systems, database management systems, networking, e-commerce, ethics and security, computer systems hardware and software components. Application of these concepts and methods through hands-on projects developing computer-based solutions to business problems.

BUS 110 Business Mathematics (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Theory and practical application to business situations of computing trade and cash discounts, commissions, payrolls, property taxes, interest, bank discount, compound interest, present value, annuities, sinking funds, insurance, consumer credit, and depreciation.

BUS 117 Legal Environment of Business (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID BUS 120
Business legal systems, sources of law, social and ethical influences, judicial and administrative systems, contracts, torts, bankruptcy, agency, business organizations, securities regulation, regulation of property, and protection of intellectual property interests.

BUS 125 Business English (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Practical approaches to solving the commonly made errors in English language usage, as specifically applied to business-oriented material. Coverage includes vocabulary, spelling, grammar, idioms, sentence structure, and punctuation.

BUS 129 Principles of Logistics (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Graded Only
Explore how supply chain management impacts all of the areas and processes of the firm and its supply chain trading partners. Focus on how managers can improve their firm's competitive position by employing the practice in the various areas of supply chain and to satisfy its customers.

BUS 130 Principles of Supply Chain Management (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Basic principles in purchasing and supply chain management, relationship management, application of processes, inventory management, source selection, obtaining and evaluating offers, buying techniques, contract writing and legal aspects.

BUS 136 Money Management and Planning for the Future (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An integrated approach to personal finance that focuses on practical financial decision-making, as well as the physiological, psychological and sociological contexts in which those decisions are made. Topics include money management, taxes, financial services, consumer credit, consumer purchasing strategies, housing, property and automobile insurance, health and disability insurance, life insurance, investment analysis and retirement and estate planning.

BUS 138 Business Ethics (2.00)
2.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course provides a systems approach for making business decisions that are responsible, practical, and defendable. It examines the gray zone of ethical quandaries and provides a methodical process for selecting alternative solutions that are ethical and good for business.

BUS 145 Retailing/Promotion (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: FASH 125
Principles and techniques of retailing, promotion, and advertising pertinent to retail policies and procedures. Includes psychological aspect of retailing. Working foundation for those looking forward to employment in this area.

BUS 150 Advertising (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
A study of advertising media and methods as sales promotional tools in marketing activities including, but not limited to, such areas as the production and evaluation of advertisements and advertising media.

BUS 152 Social Media for Business (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Explores social media use from a business perspective. Students learn how to develop a social media strategy to promote business, build strong customer relationships, and coordinate a common message across multiple channels. Strategic and tactical review of the major social networking platforms will be reviewed in order to drive business goals and create a personal brand online.

BUS 155 Marketing (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
A study of the role and functions of marketing in the wholesale and retail distribution of industrial and consumer goods and services, to familiarize students with marketing policies and practices, integration of marketing activities, and pertinent government regulations.

BUS 157 E-Commerce (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Addresses the methods by which a business can harness the powers of the Web to sell its product. Examines planning an e-business, web site creation and hosting, e-commerce stores, electronic payment issues and security, marketing an e-business, copyright, and privacy policy issues.

BUS 165 Beginning Keyboarding (2.00)
1.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to basic business document formatting. Touch-typing of alphabetic, numeric, and symbol keys on a computer keyboard. Includes development of speed and accuracy on straight copy.

BUS 166 Intermediate Keyboarding (2.00)
1.00 hours lecture - 3.00 hours lab
Recommended Preparation: BUS 165, or a keyboarding speed of 30 net words per minute
Transferability: CSU
Grading: Grade/Pass/No Pass
Continued development of higher speed and accuracy timed writing goals from BUS 165. Emphasis is placed on production of a variety of more complicated multipage business documents and forms.

BUS 170 Word for Business - Basic (1.00)
0.50 hours lecture - 1.50 hours lab
Recommended Preparation: A keyboarding speed of 20 net words a minute
Transferability: CSU
Grading: Grade/Pass/No Pass
Hands on application with Microsoft Word. Students will create, save, close, open, edit, and print a variety of business documents utilizing the following software features: finding and replacing text, moving and copying text; spell, thesaurus, grammar, and auto text; character, paragraph, page, and document formatting; envelopes; tables; columns; borders and special characters; footnotes and endnotes; draw objects and graphics; hyperlinks; styles and templates; outlines; smart tags; and, headers/footers. Class Schedule will designate software package covered.

BUS 171 Word for Business - Advanced (1.00)
0.50 hours lecture - 1.50 hours lab
Recommended Preparation: BUS 170
Transferability: CSU
Grading: Grade/Pass/No Pass
Refinement of basic word processing skills and practice of the more sophisticated software features of merge; labels; fields; index and table of contents; macros; master and subdocuments; customizing Word; on-screen forms; charts; bookmarks and cross-referencing; creating and editing Word web pages; comparing and merging documents; linking and embedding objects; and tracking changes. In addition, more advanced printing, file management, and integration of related software will be covered. The Class Schedule will designate software version covered.

BUS 173 Contemporary Job Search Techniques (1.00)
0.50 hours lecture - 1.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Use the Internet, current software, and research tools to organize and implement a job search. Includes on-line resources; preparation and posting of application materials, including digital resume and digital cover letters; interview strategies and mock interviews; industry speakers, and hard copy and online portfolios.

BUS 175 Excel Basic (1.00)
0.50 hours lecture - 1.50 hours lab
Recommended Preparation: BUS 110
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to a currently used computer spreadsheet application program. Concepts include defining, designing, and navigating spreadsheets; creating, editing, formatting, and printing spreadsheets; working with formulas and functions; and working with charts and graphics. A variety of spreadsheets will be created and edited within practical applications designed for the business environment. Class Schedule will designate software package covered.

BUS 176 Excel Intermediate (1.00)
0.50 hours lecture - 1.50 hours lab
Recommended Preparation: BUS 175, or Equivalent
Transferability: CSU
Grading: Grade/Pass/No Pass
Development of intermediate spreadsheet skills to manipulate worksheet content using a current computer spreadsheet application program. Intermediate concepts include working with lists, filtering, conditional formatting, pivot tables/charts, worksheet groups, workbook templates, lookup functions, auditing tools, document sharing features, macro basics, and publishing to a web page. Concepts are introduced using practical applications designed for the business environment. Class schedule will designate software package covered.

BUS 177 Excel Advanced (1.00)
0.50 hours lecture - 1.50 hours lab
Recommended Preparation: BUS 176, or Equivalent
Transferability: CSU
Grading: Grade/Pass/No Pass
Development of advanced skills using a current computer spreadsheet application program. Advanced concepts and skills include performing complex analyses using data tables, arrays, scenarios, goal seek and problem-solving tools, and application add-ins; importing data from external sources including text, database, schema, XML, and web files and real-time sources; defining queries; and, writing and executing macros and sub-routines. Concepts and software features are introduced applying practical applications designed for the business environment. Class schedule will designate software package covered.

BUS 183 Artificial Intelligence (A.I.) for Business (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course provides students with a comprehensive, non-technical overview of artificial intelligence (AI) and its growing impact on the business world. Students will explore how AI is transforming industries, driving innovation, and reshaping business strategies. Key topics include AI fundamentals, business applications of AI, ethical considerations, and the future of AI in areas such as administration, marketing, operations, customer service, and decision-making. By the end of the course, students will understand how AI can be leveraged to enhance business efficiency, improve customer experiences, and create competitive advantages. This course is ideal for business administration students seeking to gain insights into AI's role in today's business landscape.

BUS 197 Business Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Business. See Class Schedule for specific topic offered. Course title will designate subject covered.

BUS 204 Quantitative Business Analysis (4.00)
4.00 hours lecture
Recommended Preparation: BUS 175; **Prerequisite:** Completion of intermediate algebra or the equivalent, or eligibility or completion of PSYC/SOC 205, BUS 204, or any course between MATH 100 and 245 (excluding MATH 197) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The applied science of basing business decisions on numerical data that can be used to reduce risk in customer, product, investment, and other significant operational and strategic business decisions. Descriptive statistics (tabular, numerical, and graphical) and inferential statistics (random sampling, sampling distributions, probability distributions, hypothesis testing, linear regression, t-tests) are used within the context of business decisions. Makes extensive use of technology, including spreadsheets and other software tools, for analyzing data. Designed for students majoring in business or economics.

BUS 205 Business Communication (3.00)
3.00 hours lecture
Prerequisite: ENGL C1000, or ENGL C1000E
Transferability: CSU
Grading: Graded Only
CID-C-ID BUS 115
This course applies the principles of ethical and effective communication to the creation of letters, memos, emails, and written and oral reports for a variety of business situations. The course emphasizes planning, organizing, composing, and revising business documents using word processing software for written documents and presentation-graphics software to create and deliver professional-level oral reports. This course is designed for students who already have college-level writing skills.

CE-Cooperative Education

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

CE 100 Cooperative Education (0.50-4.00)
1.50-12.00 hours lab
Transferability: CSU
Note: May be taken up to 4 times for up to 16.00 total units
Grading: Grade/Pass/No Pass
In this course, learners will advance their education and career goals through structured work experience. With the support of a faculty member, learners will develop new skills, improve existing skills, and relate those skills to specific achievements. Learners will also evaluate their current work experience to draw connections to future education and career goals. This course will afford students the opportunity to consider how their work reflects their values and interests and how they balance work with other priorities in their lives. To take the course, learners will need to have a current job or internship. Students need to complete 54 hours of work experience per unit of credit. Please contact the Cooperative Education Department with questions and for assistance.

CE 102 Work Experience and Team Dynamics (0.50-6.00)
1.50-18.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Students will advance their education and career goals through work experience. Work experience can include a job, internship, or the student's own business. Students will develop new or expanded job-related learning objectives and reflect on their progress. Students will also explore team dynamics at their worksite, drawing on concepts from group relations theory.

CE 103 Work Experience and Organizational Culture (0.50-6.00)
1.50-18.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Students will advance their education and career goals through work experience. Work experience can include a job, internship, or student-owned business. Students will develop new or expanded job-related learning objectives and reflect on their progress. Students will also explore the organizational culture of their worksite, drawing on concepts from organizational culture theory. Students will be required to complete 54 work experience hours per unit of credit.

CE 104 Work Experience and Industry Exploration (0.50-6.00)
1.50-18.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Students will advance their education and career goals through work experience. Work experience can include a job, internship, or student-owned business. Students will develop new or expanded job-related learning objectives and reflect on their progress. Students will also begin building a professional network in their desired field to support career mobility.

CE 110 Cooperative Education - General (0.50-6.00)
2.00-18.50 hours lab
Transferability: CSU
Note: May be taken up to 4 times for up to 16.00 total units
Grading: Grade/Pass/No Pass
Supervised work experience education students. The students work experience aids in the development of transferable skills and career exploration. Course is repeatable not to exceed a total of 16 units.

CE 150 Cooperative Education Internship (0.50-6.00)
2.00-18.50 hours lab
Transferability: CSU
Note: May be taken up to 4 times for up to 16.00 total units
Grading: Grade/Pass/No Pass
Students learn major-specific knowledge and skills at an internship site that will enhance employment. Students design and complete an internship project in consultation with their internship advisor and job site supervisor. Course is repeatable not to exceed a total of 16 units.

CFT-Cabinet and Furniture Technology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

CFT 97 Cabinet and Furniture Technology Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Grading: Grade/Pass/No Pass
Topics in Cabinet and Furniture Technology. See Class Schedule for specific topic covered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

CFT 100 Fundamentals of Woodworking (3.00-4.00)
1.50-2.00 hours lecture - 4.50-6.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
An introductory course in design and construction of wood products. Survey, use, care and selection of woodworking machines and hand tools. Explanation of the basic techniques of milling, joinery, assembly and finishing.

CFT 105 Machine Woodworking/Furniture (3.00-4.00)
1.50-2.00 hours lecture - 4.50-6.00 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Study, design, and development of practical applications for basic cabinet construction as utilized by the wood product industry. Includes partitions, face frame, carcase, and basic door and drawer construction. Operation of woodworking machines, tools and processes, techniques, and care and suitability of tools and machines.

CFT 108 Business Woodworking (2.00-4.00)
2.00-4.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Prepare woodworkers to start and run a business. Topics include developing a business plan, strategies for shop efficiency, and tax and legal requirements.

CFT 110A Period Case Furniture Design (3.00-4.00)
1.50-2.00 hours lecture - 4.50-6.00 hours lab
Prerequisite: CFT 105
Transferability: CSU
Grading: Grade/Pass/No Pass
Focus is on the design of a period furniture project. Use of advanced level of joinery utilizing design; mortise and tenon; dovetails; frame and panel; and other joinery used in period case furniture.

CFT 110B Contemporary Case Furniture Design (3.00-4.00)
1.50-2.00 hours lecture - 4.50-6.00 hours lab
Prerequisite: CFT 105
Transferability: CSU
Grading: Grade/Pass/No Pass
Design of a contemporary furniture project. Use advanced level of joinery utilizing design; mortise and tenon; dovetails; frame and panel; and other joinery used in contemporary case furniture.

CFT 111A Period Case Furniture Production (3.00-4.00)
1.50-2.00 hours lecture - 4.50-6.00 hours lab
Prerequisite: CFT 110A
Transferability: CSU
Grading: Grade/Pass/No Pass
Production phase of period case furniture. Emphasis is on the completion of a solid wood period case furniture piece. Includes details such as traditional joinery; door and drawer construction methods; furniture hardware; and various finishing choices. Creation of special molding and spindle turnings for decorating the carcase will also be explored.

CFT 111B Contemporary Case Furniture Production (3.00-4.00)
1.50-2.00 hours lecture - 4.50-6.00 hours lab
Prerequisite: CFT 110B
Transferability: CSU
Grading: Grade/Pass/No Pass
Production phase of contemporary case furniture. Emphasis is on the completion of a solid wood contemporary case furniture piece. Includes traditional joinery; door and drawer construction; furniture hardware; finishing choices; and wood lamination. Creation of special molding and spindle turnings and CNC milling will also be explored.

CFT 112 Introduction to Design Software and CNC Routing (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
This course introduces students to CAD/CAM (Computer Aided Design/Computer Aided Manufacturing) software used to design and manufacture wood products. Students will design basic 3D components, document designs with drawings, create tool paths for the CNC, generate CNC programs, and operate the CNC router to manufacture parts. While emphasis is placed on wood based products the skills and knowledge gained are transferrable to many disciplines and media.

CFT 118 Furniture Design Development (2.00)
1.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Fundamental elements and principles of design while developing unique design methodologies and creative practices. Practical skills such as sketching, drawing, drafting, and model making will be stressed. In addition, students will explore wood as a creative medium by experimenting with a variety of surface textures and treatments.

CFT 120 Advanced Furniture Lab (0.50-3.00)
1.50-9.00 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Laboratory for students who need additional lab time to complete difficult, complex projects. Students will work under the supervision of an instructor.

CFT 122 Cabinetmaking Construction Lab (0.50-3.00)
1.50-9.00 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Laboratory for students who need additional lab time to complete difficult cabinetry and other complex projects. Students will work under the supervision of an instructor.

CFT 124 Chair and Table Construction Lab (0.50-3.00)
1.50-9.00 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides additional laboratory time to complete complex projects required in other classes.

CFT 128 Stringed Instruments Lab (0.50-3.00)
1.50-9.00 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Laboratory for students who need additional lab time to complete difficult stringed instruments or other complex projects. Students will work under the supervision of an instructor.

CFT 132A Ukulele Making I/Tenor Ukulele (3.00-5.00)
1.50-2.50 hours lecture - 4.50-7.50 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to the processes and construction details for building a tenor ukulele. Major topics include acoustic theory and mill and fabrication of components for stringed instruments. Each student must complete an individual tenor ukulele.

CFT 132B Ukulele Making II (3.00-5.00)
1.50-2.50 hours lecture - 4.50-7.50 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): CFT 132A
Transferability: CSU
Grading: Grade/Pass/No Pass
Students will construct a ukulele while concurrently preparing jigs, molds and fixtures for ukulele production. Students will also explore advanced techniques of embellishment and various ukulele models.

CFT 133A Guitar Technician I/Set-Up (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Techniques are used to analyze and diagnose common guitar repair issues. Determine options and techniques in the repair of common problems, with an emphasis on basic set-up and minor repair. A basic preparation course for guitar repair technician positions.

CFT 133B Guitar Technician II/Major Repair (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 133A
Transferability: CSU
Grading: Grade/Pass/No Pass
Use techniques to analyze and diagnose common guitar repair issues. Determine options and techniques in the repair of common problems; with an emphasis on major repair and advanced set-up. A preparation course for guitar repair technician positions.

CFT 134A Electric Guitar Construction I/Solid Body (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
The construction of a simple solid body electric guitar, either a "strat" or "tele" style, provides basic processes and construction details involved in the building of electric guitars, as well as the basic electronics. Skills gained in other CFT courses will be used to mill and fabricate parts. Production work and completion of an electric guitar are required. Excellent woodworking skills are essential. An extremely demanding and fast-paced course.

CFT 134B Electric Guitar Construction II/Custom (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 134A
Transferability: CSU
Grading: Grade/Pass/No Pass
Construction of a contour top electric guitar, such as a "Les Paul" style or a semi-hollow body guitar. Provides processes and construction details involved in the building of high-end and custom electric guitars, as well as the basic electronics. Skills gained in other CFT courses will be used to mill and fabricate parts. Production work and completion of an electric guitar are required. Excellent woodworking skills are essential. An extremely demanding and fast-paced course. Students will also be encouraged to build jigs forms and fixtures to aid in production.

CFT 135A Acoustic Guitar Making I (3.00-5.00)
1.50-2.50 hours lecture - 4.50-7.50 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to the process of constructing a steel string acoustic guitar. Prepares students for a career as a luthier while studying the history, design, construction methods, tone and sound theory of acoustic guitars. Students mill and fabricate instrument components focusing on construction details and each student will complete an acoustic guitar. Considerable prior woodworking/instrument making experience is recommended.

CFT 135B Acoustic Guitar Making II (3.00-5.00)
1.50-2.50 hours lecture - 4.50-7.50 hours lab
Prerequisite: CFT 135A
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to advanced processes for constructing a steel string acoustic guitar. Prepares students for a career as a luthier while studying the history, design, construction methods, tone and sound theory of acoustic guitars. Each student will use advanced design, construction techniques, and woodworking skills to build a refined and embellished acoustic guitar. Considerable prior woodworking/instrument making experience is recommended.

CFT 142 The Art and Craft of Planemaking (1.00-3.00)
0.50-1.50 hours lecture - 1.50-4.50 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Teaches students to make wooden hand planes. Through the use of lecture, handouts, demonstrations and videos, the following topics will be covered: the history of plane making; tuning and using wooden and metal planes; designing a plane; making and tuning laminated planes; cutting, tempering and sharpening a plane iron; and designing, making and using a wooden plane.

CFT 143 Decorative Box Making (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Concentrates on the skills and techniques needed to make finely crafted heirloom quality boxes. Types of boxes include: jewelry, cigar humidor and silver chest. Topics include: design, function, selection of materials, construction techniques, partitions, linings, hardware, assembly techniques, hinge installation, and finishing techniques.

CFT 144 Production Wood Products I (1.00-4.00)
0.50-2.00 hours lecture - 1.50-6.00 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Methods and techniques of high production manufacturing are learned through lecture, demonstration and extensive lab work in a production mode. The wood products manufactured in this course may be donated to local charities.

CFT 145 Production Wood Products II (1.00-4.00)
0.50-2.00 hours lecture - 1.50-6.00 hours lab
Prerequisite: CFT 144
Transferability: CSU
Grading: Grade/Pass/No Pass
Students will be Team Leaders/Managers in design, planning, time and material managements, and production. Includes organizing schedules, material flow, and production techniques. The wood products manufactured in this course may be donated to local charities.

CFT 148 Marquetry, Inlay and Veneering (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Examines the history of Marquetry. Students will use the tools necessary to complete a Marquetry project which includes: veneer hammer, hide and other glues, veneer tape, scroll saw, veneer saw and related tools and equipment. The various methods of cutting veneers will be examined as well as methods for cutting, assembling and installing inlay.

CFT 149 Hand Joinery I (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Exploration of hand tool techniques with application to fine furniture. Skills will be developed through the construction of sample joints and a simple project. Topics include: marking and layout tools, cutting tools, use of the workbench and its accessories, hand saws and their use, Japanese vs. Western tools, dovetail joinery, mortise and tenon joinery, squaring and sizing with a hand plane, sharpening hand tools and building a simple carcase.

CFT 151 Veneering Technology I (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to the use of veneers in furniture making. Topics include: Understanding veneer as a material, cutting and seaming veneer, pressing veneer using traditional and modern methods, creating sunbursts and other multi-piece matches, using and maintaining various cutting tools and sawing your own veneer.

CFT 152 Veneering Technology II (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 151
Transferability: CSU
Grading: Grade/Pass/No Pass
Advanced veneering techniques which include working with radius shapes, hand and machine, hammer veneering, and installation of bandings and stringings. Demonstration of abilities will be required with the construction of a small piece of furniture.

CFT 153 Studio Furniture Design I (2.00)
1.00 hours lecture - 3.00 hours lab
Prerequisite: CFT 105
Transferability: CSU
Grading: Grade/Pass/No Pass
Exploration of historical design concepts and their application to contemporary work. Development of drawing skills needed to design one-of-a-kind studio furniture.

CFT 155 Classic American Chair Designs (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Chair making which emphasizes the use of traditional chair making tools to shape raw wood into chair parts. Topics include the history of Windsor and Ladder Back chair designs, harvesting raw materials from a tree, proper sharpening of the hand tools, shaping, steam bending, kiln drying and assembling the chair parts, seat weaving and traditional finishing appropriate to each chair style.

CFT 156 Advanced Classic American Chair Designs (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 155
Transferability: CSU
Grading: Grade/Pass/No Pass
Chair making which emphasizes the use of traditional chair making tools to shape raw wood into chair parts. Skill development and improved craftsmanship is emphasized while learning to make more complex chairs. Advanced chair designs include: bow back, continuous arm, writing arm, double and triple settees and fan back Windsor chairs; Appalachian style three-slat side chair, four-slat arm chair, bar stools, youth rocker and six-slat rocking chair.

CFT 159A Chair and Tables/Prototype Construction I (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 105
Transferability: CSU
Grading: Grade/Pass/No Pass
An in-depth study of production table and chair making. History of chair making and seating. Design and application of pattern-making techniques on student-selected projects.

CFT 159B Chair and Tables/Prototype Construction II (2.00-4.00)

1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 105
Transferability: CSU
Grading: Grade/Pass/No Pass
Chairs and tables design and construction. Covers the history of chair and table making. Design and application of pattern making techniques on student-selected projects. Machine tool operations necessary to produce various table leg, trussel, and base designs.

CFT 160A Chairs and Tables/Production Manufacturing I (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 159A
Transferability: CSU
Grading: Grade/Pass/No Pass
Second semester of a two-semester class (CFT 159A and CFT 160A). Chair and seating construction production and advanced machine tool techniques are used as they relate to chair making. Fine joinery, theory and advanced techniques.

CFT 160B Chairs and Tables/Production Manufacturing II (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 159B
Transferability: CSU
Grading: Grade/Pass/No Pass
Second semester of a two-semester class (CFT 159B and CFT 160B). Development and refinement of table making skills, processes and procedures. Construction of extension and drop-leaf style tables. Joinery and hardware unique to table making.

CFT 163 Plastic Laminate Fabrication Techniques (1.00-2.00)
0.50-1.00 hours lecture - 1.50-3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Examines the manufacturing process for plastic laminate products, including tools, adhesives, jigs, application and installation techniques. Lectures, demonstrations, and hands-on exercises will give students the opportunity to develop the proficiency and knowledge to design, build and install plastic laminate products.

CFT 165A Cabinetry Design/Face Frame (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
First course of a two-semester sequence (CFT 165A and CFT 167A). Emphasis is on face frame cabinets. Study of the principles of traditional and European styles of cabinetmaking as used to construct and install cabinetry in residential and commercial applications, with preference given to residential applications.

CFT 165B Cabinetry Design/European (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
First course of a two-semester sequence (CFT 165B and CFT 167B). With an emphasis on European 32mm cabinets. Study of the principles of traditional and European styles of cabinetmaking as used to construct and install cabinetry in residential and commercial applications, with preference given to residential applications.

CFT 167A Cabinetry Production/Face Frame (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 165A
Transferability: CSU
Grading: Grade/Pass/No Pass
Second course of a two-semester sequence. Students will learn and apply the construction methods and installation processes of face frame cabinets by constructing the cabinets designed in CFT 165A.

CFT 167B Cabinetry Production/European (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 165B
Transferability: CSU
Grading: Grade/Pass/No Pass
Second course of a two-semester sequence (CFT 165B and CFT 167B). Students will learn and apply the construction methods and installation processes of European style 32mm cabinets by constructing the cabinets designed in CFT 165B.

CFT 168 Cabinetmaking/Architectural Millwork (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 105
Transferability: CSU
Grading: Grade/Pass/No Pass
Historical and modern architectural millworking techniques used in frame and panel systems, doors, fireplaces, wall systems, staircases and built-in components. Hands-on experience on student-selected projects may include woodcarving, woodturning, construction of doors and windows and the production/installation of moldings.

CFT 169 Cabinetmaking/Computer Cabinet Layout (2.00-3.00)
1.00-1.50 hours lecture - 3.00-4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Selection and application of appropriate software as developed for the cabinet industry. Development of industrial standard cabinet plans and specifications utilizing personal-size computer and software programs.

CFT 170 Workbench Design and Production (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Design and construction of the most basic of woodworking tools, a workbench. Process rough lumber to maximize yield and minimize waste. Students will be allowed to customize the size of their bench to fit individual requirements within limits. However, mass-production techniques will not be sacrificed. In addition, a broad review of woodworking vises and other bench accessories will be conducted so that students will be able to further customize their own bench.

CFT 172 CAD for Cabinets & Furniture (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to basic CAD concepts and their direct application to the design and drawing of custom cabinets and furniture, as an alternative to hand drawn plans and a starting point to Computer Assisted Manufacturing.

CFT 175 Jigs/Fixtures and Routers (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 105
Transferability: CSU
Grading: Grade/Pass/No Pass
Theory of production tooling, fixtures, and jigs; design and develop practical applications of production tooling, fixtures and jigs as used in current machines within the industry. Field trips to local industries will allow students to further understand tooling as used in the trades.

CFT 176 The Lathe - An Introduction to Woodturning
(2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Emphasis on Spindle Turning or turning Between Centers. Students will learn the history of the lathe; the components of the lathe and how to select the best lathe and accessories for their particular turning style. Discussion of tool selection, proper tool sharpening techniques, what to expect from a basic set of turning tools with emphasis on the skew, the gouge, the parting tool and importantly – the handle. Design and fabrication of tool handles, including tool making and tool modification. Additionally, projects will include turning a mallet, tool handles, kitchen utensils, "weed vases" and ornaments. Introduction to bowl turning and turning other than solid wood such as laminates and acrylics.

CFT 177 Lathe II - Intermediate Turning (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 176
Transferability: CSU
Grading: Grade/Pass/No Pass
The study of architectural turning in relation to furniture making and overall advanced turning techniques. Discussion of tool selection, proper tool sharpening techniques, what to expect from a basic set of turning tools, with emphasis on the skew, gouge, parting tool, and an introduction to specialty turning tools. Split turning, offset turning, multi-axis turning, and duplication will be introduced.

CFT 178 Lathe III - Advanced Turning (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 177
Transferability: CSU
Grading: Grade/Pass/No Pass
Continuation of Lathe II - Intermediate Turning. Exploration of techniques and material in-depth, and focus on mastery.

CFT 180 Wood Bending and Lamination/Wood Technology (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 105
Transferability: CSU
Grading: Grade/Pass/No Pass
Principles and practical applications of both wood bending and lamination. Mechanical and chemical means of bending wood studied and developed, specific structure and properties of wood are developed.

CFT 185 Machine Tool Set-Up and Maintenance (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Set up, repair, rebuild, and maintain tools and machines used in the wood-related industries. Machine tool operations studied and applied. Consumer information developed to acquaint student with machines and tools within the field. Planned maintenance schedules developed and applied.

CFT 187 Introduction to Carving (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
This beginning course in carving introduces students to the tools and techniques used in carving wood. The course includes specifics of available tools, their proper handling and maintenance, as well as discussions of layout and carving methods as applied to furniture and architectural millwork.

CFT 188 Intermediate Carving (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 187
Transferability: CSU
Grading: Grade/Pass/No Pass
Examines methods relating to both low and high relief carving, as well as incised lettering. More complex layout and carving techniques are undertaken. Concepts such as setting-in and blocking-out are introduced while modeling, introduced in the beginning course, is more fully developed.

CFT 189 Advanced Carving (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Advanced carving is a topical study of specific carving applications as they relate to furniture or architectural millwork. Topics are largely gathered from period styles and may include ball and claw feet, Newport shells, and Philadelphia rococo, as well as contemporary interpretations, Art Nouveau, and maritime themes. See class Schedule for specific period styles/themes to be emphasized.

CFT 195 Finishing Technology/Touch-Up and Repair (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): CFT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Finishes as used in the wood-related fields. Study and use of penetrating and surface finishes. Preparation to include sanding, filling, staining and sealing. Chemistry of lacquers, urethanes, oils, and shellac. Instruction and practice in the touch-up of existing finishes through the use of French polishing, burn-in sticks, and aniline staining. Repair of fine furniture as necessary prior to finishing.

CFT 197 Cabinet and Furniture Technology Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Cabinet and Furniture Technology. See class schedule for specific topic covered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

CFT 198 Advanced Wood Finishing (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 195
Transferability: CSU
Grading: Grade/Pass/No Pass
Wood finishing history, processes, and application of multiple colors and complex finishes on furniture. Topics include media, solvents and tools used to apply media, faux finishes, gilding, coloring the finishing materials, turning broken or missing parts, and veneer repair.

CFT 212 Intermediate Design Software and CNC Routing (2.00-4.00)
1.00-2.00 hours lecture - 3.00-6.00 hours lab
Prerequisite: CFT 112
Transferability: CSU
Grading: Grade/Pass/No Pass
This course builds on the introductory course to further develop student's skills in the use of design software and operating computer numerical control (CNC) routing machines used for manufacturing wood products. Students will design advanced 3D components, document designs with drawings, create tool paths for the CNC, generate CNC programs, and operate the CNC router to manufacture parts. While emphasis is placed on wood based products the skills and knowledge gained are transferrable to many disciplines and media.

CFT 295 Directed Study in Woodworking (1.00-6.00)
3.00-18.00 hours lab
Prerequisite: CFT 105
Transferability: CSU
Grading: Grade/Pass/No Pass
Independent study in furniture making, cabinet making, shop layout, design, operation, and maintenance for students who have demonstrated advanced skills and/or proficiencies in Cabinet and Furniture Technology subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Registration requires prior approval of supervising instructor.

CHDV-Child Development

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

CHDV 99 Preparation for Child Development Majors (0.50)
0.50 hours lecture
Grading: Grade/Pass/No Pass
Prepares Child Development majors to successfully complete child development course work at the 100 level and higher. Introduces the concepts of APA writing and format, Child Development department requirements for observations and lesson plans, skills to develop a professional portfolio, and creating a degree completion plan. It is strongly recommended that students complete this course in the first semester of enrollment in a Child Development program.

CHDV 100 Child Growth and Development (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID CDEV 100
Introductory course that examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages.

CHDV 101 Principles and Practices of Teaching Young Children (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
An examination of historical contexts and theoretical perspectives of developmentally appropriate practice in early care and education for children birth through age eight. Explores the typical roles and expectations of early childhood educators. Identifies professional ethics, career pathways, and professional standards. Introduces best practices for developmentally appropriate learning environments, curriculum, and effective pedagogy for young children including how play contributes to children's learning, growth, and development.

CHDV 102 Working with Parents and Families (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Establishes the roles of preschool teachers, child-care providers, and early childhood administrators as effective partners with parents by developing a family-centered approach to parent involvement. Examines cultural and developmental diversity in relation to parent and family interactions and contacts. Develops skills and techniques in familial involvement including: communication, home visits, conferences, parent education, and group contacts with parents.

CHDV 103 Infant and Toddler Development (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
A study of the process of human development from pre-conception to 36 months of age, as influenced by heredity, society, and human interaction, with implications for guidance. Physical, cognitive, language, social, and emotional growth and developmental domains are addressed. Prenatal development and the birth process are examined. In addition to typical and atypical developmental milestones in all domains, a focus on attachment and relationships in relation to development is emphasized.

CHDV 104 Guidance for Young Children (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Designed to increase understanding of children's behavior. Designed for parents, early childhood educators and caregivers to explore effective guidance techniques to promote a child's self-control, self-esteem and competence. Developmental, cultural and communication principles are emphasized. Strategies for environmental controls for behavior and pro-social interactions are emphasized and techniques for dealing with issues including separation, peer interaction, fears, frustration and aggression are investigated.

CHDV 105 Observation and Assessment (3.00)
3.00 hours lecture
Prerequisite: CHDV 100; **Corequisite (Course required to be taken concurrently):** CHDV 105A; CHDV 105B; CHDV 105C; **Recommended Preparation:** ENGL C1000, or ENGL C1000E, or ESL 110
Transferability: CSU
Grading: Grade/Pass/No Pass
CID-C-ID ECE 200
Focuses on the appropriate use of a variety of assessment and observation strategies, such as recording methods, rating systems, portfolios, and multiple assessment tools to document child development and behavior. Child observations will be conducted and analyzed in a variety of age ranges, including infant/toddler, preschool, early elementary and/or in early inclusion settings. Participation with young children will take place within the assigned classroom setting.

CHDV 105A Observation, Assessment, and Participation Lab: Preschool (1.00)
3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): CHDV 105
Transferability: CSU
Grading: Grade/Pass/No Pass
Designed to give students direct experience in observing and recording children's behaviors in a preschool or equivalent early childhood setting. Participating and working directly with young children (3 to 5 years) in a preschool classroom or equivalent setting is required. Laboratory experience will be completed at one of the Palomar College ECE Lab Schools on campus or with a department approved California Mentor Teacher.

CHDV 105B Observation, Assessment, and Participation Lab: Infant/Toddler (1.00)
3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): CHDV 105
Transferability: CSU
Grading: Grade/Pass/No Pass
Designed to give students direct experience through observing and recording children's behaviors in an infant and/or toddler setting. Participating and working directly with infants and/or toddlers (0 to 3 years) in a classroom is required. Laboratory experience will be completed at one of the Palomar College ECE Lab Schools on campus or with a department-approved California Mentor Teacher.

CHDV 105C Observation, Assessment, and Participation Lab: Early Inclusion (1.00)
3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): CHDV 105
Transferability: CSU
Grading: Grade/Pass/No Pass
Designed to give students direct experience through observing and recording children's behaviors in an early childhood inclusive setting. Participating and working directly with typically developing children and children with disabilities (0 to 5 years) in a classroom is required. Laboratory experience will be completed at one of the Palomar College ECE Lab Schools on campus or with a department-approved California Mentor Teacher.

CHDV 106 Infant and Toddler Care and Curriculum (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
A survey of program and activity planning for infants and toddlers in child care programs, applying current research and theory and emphasizing the role of the environment on behavior, attachment, and development. Strategies for working with parents, observation and assessment skills and the need for professional development will be explored. Concepts of effective practice for infant and toddler care with an emphasis on communication, cultural differences, problem-solving, and providing an appropriate and nurturing environment for children of all ability levels. Examines essential policies, principles, and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months.

CHDV 110 Introduction to Children with Disabilities (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduces the variations in development of children with disabilities ages birth through eight. Provides an overview of special education in the United States, including the historical antecedents, legislation, the identification and referral process, as well as discussion of societal, family, and classroom issues relevant to children with disabilities. Focus is on fostering understanding and respect for those who have disabilities, their families, and the professionals that serve them. This course does not focus on classroom teaching strategies specifically, rather it is an overview of the inclusive education system in the US.

CHDV 112 Early Intervention and Inclusion (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Covers curriculum and intervention strategies for working in inclusive settings with children with suspected and identified disabilities and delays from birth to age 8 in partnership with families. Topics covered will include observation and assessment, curriculum modification, and accommodation strategies to facilitate the development of cognitive, motor, social, emotional, and language skills in infants, toddlers, and young children with disabilities. Specific emphasis will be placed on collaborative and culturally competent methods for working with professionals in the field as well as the families of children with disabilities.

CHDV 115 Child, Family, and Community (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID CDEV 110
An examination of the developing child in a societal context that focuses on the interrelationships of family, school, and community and emphasizes historical and socio-cultural factors. The processes of socialization and identity development, demonstrating the importance of respectful, reciprocal relationships that support and empower families in a culturally diverse society will be highlighted, focusing on understanding a holistic approach to child development.

CHDV 120 Health, Safety, and Nutrition (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
An overview of the health, safety and nutritional needs of young children and practices to ensure the health and well-being of children and staff in early childhood education settings. Introduces laws, regulations, standards, policies and procedures, risk management and early childhood curriculum related to health, safety, and nutrition. The key components that ensure physical and mental health, safe environments, and nutritional needs will be identified, with a focus on integrating best practices into everyday planning, curriculum and program development.

CHDV 142 Using Sign in the Early Childhood Setting (0.50)
0.50 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Explores the benefits and research behind using sign with infants, toddlers, and preschoolers. Techniques for implementing use of signs in the classroom with hearing children will be discussed, as well as basic signing exercises and games.

CHDV 145 Understanding Childhood Stress and Trauma (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
A comprehensive overview of concepts, theories, and issues related to childhood stress and trauma. Emphasis is on the short-and long-term effects that stress, trauma and abuse has on the physical, cognitive, language, social, and emotional stages of a child's development. Introduction to child behavior patterns and potential responses to stress and trauma. Identify, prevent report, assess and intervene in cases of child abuse, neglect, domestic violence and community violence. Examine research and innovative methods that support the child's coping skills and healing process through trauma-informed practices. Develop an understanding of how children react and adapt to stress and trauma, the factors that contribute to childhood stress and trauma, what parents and early childhood practitioners can do to assist children, and how to implement self-care practices.

CHDV 150 Administration I: Programs in Early Childhood Education (3.00)
3.00 hours lecture
Prerequisite: CHDV 100; CHDV 115; **Recommended Preparation:** Currently teaching or supervising in a preschool or childcare setting.
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to the administration of early childhood programs. Covers program types, funding, budget, management, state regulations, laws, development and implementation of policies and procedures. Examines administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program. Ethical concerns and professional development will be addressed. Partially fulfills the requirement for administration for the Site Supervisor and Program Director Child Development Permits issued by the State of California Commission on Teaching Credentialing, and also meets Title 22 licensing regulations for directors.

CHDV 152A Environmental Rating Scale for Early Childhood Settings (1.50)
1.50 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
An overview of the Environmental Rating Scale for early childhood settings (ECERS). Self-study and assessment methods for quality environments will be explored. Application of the rating scale will be emphasized.

CHDV 152B Environmental Rating Scale for Infant/Toddler Settings (1.50)
1.50 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
An overview of the Environmental Rating Scale for infant/toddler settings (ITERS). Self-study and assessment methods for quality environments will be explored. Application of the rating scale will be emphasized.

CHDV 155 Administration II: Personnel and Leadership in Early Childhood Education (3.00)
3.00 hours lecture
Prerequisite: CHDV 100 and CHDV 115; **Recommended Preparation:** Currently teaching or supervising in a preschool or childcare setting.
Transferability: CSU
Grading: Grade/Pass/No Pass
Effective strategies for personnel management and leadership in early care and education settings. Includes legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program. Application of supervisory techniques that generate productive staff supervision in early childhood settings, including staff motivation, staff benefits, team building, and leadership skills. Partially fulfills the requirement for administration for the Site Supervisor and Program Director Child Development Permits issued by the State of California Commission on Teacher Credentialing, and also meets Title 22 licensing regulations for directors.

CHDV 172 Teaching in a Diverse Society (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: EDUC 172
This course introduces teaching careers in early childhood, primary and secondary education and involves 15 hours of supervised fieldwork in community educational settings. Examines the development of social identities in diverse societies, including theoretical and practical implications affecting young children, families, programs, teaching, education, and schooling. Culturally relevant and linguistically appropriate anti-bias approaches supporting all people in becoming competent members of a diverse society. Social and emotional learning and conflict resolution is explored as a part of this process. Involves self-reflection of one's own understanding of educational principles in integrating bias to better inform teaching practices and/or program development. Major units include theoretical and practical articulation of culture and cultural pluralism, structural, programmatic, and curricular issues. This course examines issues of diversity in areas including, but not limited to race, ethnicity, gender, ability, family structure, sexuality, exceptionality, and religion.

CHDV 180 School-Age Development (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Designed to prepare students to work in educational and childcare settings, by focusing on the development of children ages 5 through 12. Students will study developmental theories and the practical implications of these theories when working with the school-aged child.

CHDV 182 ECE Curriculum Experiences: Art, Music and Movement (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Examine art, music and movement concepts for young children, infants through eight years. Plan, implement, and evaluate developmentally appropriate creative experiences in art, music, movement and dramatic play and will apply theoretical concepts using various methods. Emphasis will be placed on the developmental, integrative, theoretical and experiential approaches and techniques to facilitate creative experiences in art, movement and music in early childhood curriculum for application in the early childhood setting.

CHDV 184 ECE Curriculum Experiences:Language, Literacy, Math and Science (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Examine language development, literature, logic, math and science concepts for young children, infants through eight years. Plan, implement, and evaluate developmentally appropriate literature, math and science experiences for young children and apply theoretical concepts using various methods. Overview is presented of typical language and literacy development from birth through early childhood, including theoretical approaches and developmental issues, as well as techniques for appropriately incorporating literacy, math and science across curricula. An emphasis is placed on developmental and experiential methods for application in the early childhood education setting.

CHDV 185 Introduction to Curriculum (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Presents an overview of knowledge and skills related to providing developmentally appropriate curriculum and environments for young children from birth to age 8. Students will examine a teacher's role in supporting development and engagement for all young children. Provides strategies for developmentally appropriate practice based on observation and assessments across the curriculum, including pedagogical philosophies, curricular content areas, play and creativity, guidance, and development of social-emotional, communication, and cognitive skills. Students will use knowledge of children's development and theories of learning and development to support the creation of indoor and outdoor learning environments and plans.

CHDV 190 Curriculum for the School-Aged Child (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
A survey of programs and activity planning for school-age children (5-12), including both before and after school curriculum and activities for groups and individuals of various developmental levels in the school-age range. This will include the role of relationships, constructive adult-child interaction, and positive child guidance. Emphasis will be given to strategies that support physical, social, emotional, language, and cognitive development. This course incorporates licensing regulations for Title 22 and Title 5 licensed facilities

CHDV 195 Adult Supervision and Mentoring in Early Care and Education (3.00)
3.00 hours lecture
Prerequisite: CHDV 100; CHDV 115; **Prerequisite: (Completion of, or concurrent enrollment in):** CHDV 152A; CHDV 152B; **Recommended Preparation:** Currently teaching in a preschool or child care setting in the role of lead teacher, head teacher, or other supervisory capacity.
Transferability: CSU
Grading: Grade/Pass/No Pass
Methods and principles of supervising student teachers, volunteers, staff, and other adults in early care and education settings. Emphasis is on the roles and development of early childhood professionals as mentors and leaders. The role of the experienced classroom teacher who functions as a mentor to new teachers while simultaneously addressing the needs of children, parents, staff, and community resources will be emphasized. Students study effective models for guidance and evaluation of adults, positive communication skills, and the role of the mentor in a teaching environment. This course is designed for students who plan to supervise other adults in the early childhood classroom. This course is required for the levels of Master Teacher, Site Supervisor, and Program Director for the Child Development Permit issued by the State of California Commission on Teacher Credentialing.

CHDV 201 Practicum in Early Childhood Education (4.00)
2.00 hours lecture - 6.00 hours lab
Prerequisite: CHDV 105 and CHDV 115 and CHDV 185
Transferability: CSU
Grading: Grade/Pass/No Pass
Students will practice and demonstrate developmentally appropriate early childhood program planning and teaching competencies under the supervision of Palomar College ECE Lab School or a designated site with a mentor teacher approved by the California Early Childhood Mentor Program, upon placement by the Child Development department. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children.

CHDV 201A Supervised Field Experience in Early Childhood Education (4.00)
2.00 hours lecture - 6.00 hours lab
Prerequisite: Bachelor's degree (in any field) and CHDV 100 and CHDV 115 and any 6 additional units of ECE/CHDV coursework.
Transferability: CSU
Grading: Grade/Pass/No Pass
Students will practice and demonstrate developmentally appropriate ECE program planning and teaching competencies in a licensed early childhood classroom with children ages 5 or under, under the supervision of a teacher/director who is Master Teacher permit qualified. Students will utilize practical workplace experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child-centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children. This supervised field experience course is designed specifically for students pursuing the Site Supervisor permit under Option 2, issued by the CA CTC.

CHDV 205 Internship in Child and Family Services (2.00)
2.00 hours lecture
Prerequisite: CHDV 100 and CHDV 115; **Corequisite (Course required to be taken concurrently):** CHDV 205A
Transferability: CSU
Note: May be taken up to 4 times for up to 8.00 total units
Grading: Grade/Pass/No Pass
Students will practice and demonstrate the theories and techniques of their discipline in an internship position in a professional setting under the instruction of a faculty member and an internship supervisor. Students will make connections between theory and practice, develop professional behaviors and increase their understanding of children and families. This course introduces the students to aspects of the roles and responsibilities of professional employment in the field of study. Course topics include goal setting, employability skills development, and examination of the world of work as it relates to the student's career plans in child and family services. Students will work with agencies that serve families with children under the age of 18. Students may not be financially reimbursed for this internship experience.

CHDV 205A Internship in Child and Family Services Lab (1.00)
3.00 hours lab
Corequisite (Course required to be taken concurrently): CHDV 205
Transferability: CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Students learn child development knowledge and skills at an internship site that will enhance employment. Students design and complete an internship project in consultation with their internship advisor and job site supervisor.

CHEM-Chemistry

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

CHEM 10 Chemistry Calculations (1.00)
1.00 hours lecture
Grading: Pass/No Pass Only
The basic calculation skills needed for successful performance in CHEM 100, 110, and 115. Areas such as significant figures, exponential numbers, and basic chemical problems are discussed. Emphasizes student practice of chemistry problems.
Notes:
Non-degree Applicable

CHEM 100 Fundamentals of Chemistry (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of any course between MATH 110 and 245 (excluding MATH 197, MATH 120, or PSYC/SOC 205, or BUS 204) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introductory study of the principles and laboratory techniques of general chemistry. Laboratory must be taken concurrently with lecture.

CHEM 104 General Organic and Biochemistry (5.00)
4.00 hours lecture - 3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course will cover the basic principles of general chemistry, organic chemistry and biochemistry as needed to understand the biochemistry, physiology, and pharmacology of the human body. This course is intended mainly for students pursuing health professions.

CHEM 105 Fundamentals of Organic Chemistry (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: CHEM 100, or CHEM 110 and CHEM 110L
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to the study of organic chemistry with an emphasis on classification, reactions, and application to allied fields. Laboratory includes techniques of isolation, identification, and synthesis of organic compounds.

CHEM 110 General Chemistry (3.00)
3.00 hours lecture
Prerequisite: CHEM 100 or the equivalent college introductory chemistry course with a laboratory; Completion of intermediate algebra or the equivalent, or eligibility or completion of any course between MATH 110 and 245 (excluding MATH 197, MATH 120, or PSYC/SOC 205, or BUS 204) based on multiple measures.;
Corequisite (Course required to be taken concurrently): CHEM 110L
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID CHEM 110
Principles of, and calculations in, areas such as atomic structure, solutions, chemical bonding, chemical formulas and equations, gases, energy transformations accompanying chemical changes, and descriptive chemistry.

CHEM 110L General Chemistry Laboratory (2.00)
6.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): CHEM 110
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID CHEM 110
Qualitative and quantitative investigations designed to accompany CHEM 110.

CHEM 115 General Chemistry (3.00)
3.00 hours lecture
Prerequisite: CHEM 110; CHEM 110L; **Recommended Preparation:** Concurrent enrollment in CHEM 115L
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID CHEM 120S
A continuation of the general principles of chemistry with emphasis on chemical kinetics, chemical equilibria, acids and bases, thermodynamics and electrochemistry. It includes an overview of coordination chemistry and organic chemistry.

CHEM 115L General Chemistry Laboratory (2.00)
6.00 hours lab
Prerequisite: CHEM 110; CHEM 110L; **Prerequisite: (Completion of, or concurrent enrollment in):** CHEM 115
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Qualitative and quantitative investigations designed to accompany CHEM 115.

CHEM 197 Chemistry Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Topics in Chemistry. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. May be transferable to UC upon UC's review of the course syllabus.

CHEM 205 Introductory Biochemistry (3.00)
3.00 hours lecture
Prerequisite: CHEM 105
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Fundamental principles of the chemistry of living systems, including structure and function of proteins, nucleic acids, carbohydrates, and lipids. Emphasis on metabolism, energy storage and utilization.

CHEM 220 Organic Chemistry (5.00)
3.00 hours lecture - 6.00 hours lab
Prerequisite: CHEM 115; CHEM 115L
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Integrated treatment of organic chemistry including electronic and orbital theory with applications to carbon bonding, stereochemistry, resonance theory, and reaction mechanisms of aliphatic compounds. Strong emphasis on organic nomenclature, reactions, preparations, and synthesis of organic compounds in lecture. Laboratory: Techniques and theories involved in organic reactions and preparations, qualitative organic analysis, and instrumental methods.

CHEM 221 Organic Chemistry (5.00)
3.00 hours lecture - 6.00 hours lab
Prerequisite: CHEM 220
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Continuation of the integrated treatment of organic chemistry including electronic and orbital theory with applications to carbon bonding, stereo chemistry, resonance theory, and reaction mechanisms of both aliphatic and aromatic compounds. Strong emphasis on organic nomenclature, reactions, preparations, and synthesis of organic compounds. Laboratory: techniques and theories involved in organic reactions and preparations, qualitative organic analysis, and instrumental methods and multistep synthesis.

CHEM 295 Directed Study in Chemistry (1.00-3.00)
3.00-9.00 hours lab
Prerequisite: Approval of project or research by department chairperson
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Independent study for students who have demonstrated skills and/or proficiencies in chemistry subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

CHIN-Chinese

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

CHIN 101 Chinese I (5.00)
5.00 hours lecture - 1.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the first semester of Chinese. This elementary level course is a study of the Chinese language and Chinese-speaking cultures, with emphasis on the development of communicative skills and basic structures. Course combines in-class instruction and practice with self-paced study in the Foreign Language Laboratory. This beginning-level course is for students with no previous coursework in Chinese.

CHIN 102 Chinese II (5.00)
5.00 hours lecture - 1.00 hours lab
Prerequisite: CHIN 101; two years of high school Chinese
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the second semester of Chinese. This elementary level course is a study of the Chinese language and Chinese-speaking cultures, with continued emphasis on the development of communicative skills and basic structures. Course combines in-class instruction with self-paced study in the Foreign Language Laboratory.

CHIN 197 Chinese Topics (0.50-5.00)
0.50-5.00 hours lecture - 1.50-15.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Topics in Chinese. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. May be transferable to UC upon UC's review of the course syllabus.

CHIN 201 Chinese III (5.00)
5.00 hours lecture - 1.00 hours lab
Prerequisite: CHIN 102; three years of high school Mandarin Chinese
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the third semester of Mandarin Chinese. This intermediate level course is a study of the Chinese language and Chinese-speaking cultures, focusing on intermediate level structures and readings of culturally relevant authentic materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in Chinese. Course combines in-class instruction with self-paced study in the World Languages Laboratory. Class is largely conducted in Chinese.

CINE-Cinema

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

CINE 100 Art of the Cinema (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is an aesthetic study of film. It examines the broad questions of form and content, aesthetics and meaning, and history and culture. Weekly film screenings will investigate the use of symbolism, characterization, imagery, and uses of realism and fantasy in motion pictures. Analysis of significant films will be in terms of thematic coherence, structural unity, technical achievement, and visual beauty. Topics include modes of production, narrative and non-narrative forms, visual design, editing, sound, genre, ideology and critical analysis. Also explored is how the film business influences cinema as an art form.

CINE 102 History of Film to 1945 (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A survey of the development of the motion picture as an art form and cultural phenomenon from its inception to the end of World War II, including early inventors, pioneers of cinematic grammar, and major film movements such as German Expressionism, Soviet Montage, and the golden age of the American studio system. Films are regularly screened in the classroom.

CINE 103 History of Film 1945 - Present (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A survey of the development of the motion picture as an art form and cultural phenomenon from the end of World War II to the present day, including major film movements such as Italian Neorealism, Film Noir, the French New Wave, and the American Renaissance of the 1960s-70s. Films are regularly screened in the classroom.

CINE 105 Film Subjects (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
A study of selected motion picture themes such as women in films, the western, the films of Hitchcock/Chabrol. Check the Class Schedule each semester for the particular subject.

CINE 106 Horror Film (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
With legions of fans and detractors alike, the horror film is one of the most popular, varied, and complex film genres. What makes them so revolting and dreadful yet keeps us coming back and unable to look away? This course asks this question, and others pertaining to horror's aesthetic, cultural and historical significance, in a survey of horror films past and present, in the US and internationally. As a study of a single film genre, this course too assesses the significance of genre to how the film industry works, how viewers engage with generic conventions, and how film genres and culture change over time. Also, horror films often tap into sublimated cultural anxieties that expose social tensions and contestations over gender, race and class inequities.

CINE 110 Documentary Film (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A study of the complete spectrum of documentary film including actualities, travel records, political propaganda, newsreels, historical, ethnographic, and archival films and those that make a personal poetic statement. The contributions of important filmmakers including Ken Burns, Robert Flaherty, John Grierson, Barbara Kopple, Ricky Leacock, Albert and David Maysles, Michael Moore, D.A. Pennebaker, and Frederick Wiseman will be discussed. Significant films from the beginning of film to the present will be screened.

CINE 115 Creative Writing for Television and Cinema (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: DBA 115
Basic introductory course in narrative script writing for film and episodic television. Emphasis on basic screenplay structure, characters, conflict, theme and technical script formatting in the development of a short screenplay.

CINE 120 Film Criticism (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Film criticism refers to the serious and detailed analysis of film. Several critical approaches, i.e. auteur, genre, realism, feminism, will be studied and used to analyze film. These approaches explore film and its meaning through the historical development of the medium, from filmmaking's technical components, by relating a film or group of films to the social and cultural environment of the time, by focusing on the work in terms of its emotional and psychological impact on the viewer and how it is influenced by the nature of the film industry and financial considerations. We will recognize the collaborative nature of the medium as well as the significance of the individual artist to a particular film or group of films. Films will be screened weekly in class.

CINE 122 Identity in American Film (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A critical study of how American identity is formed in relation to American cinema. Areas of investigation include race, class, gender, sexual orientation, age, and ethnicity. Screening and analysis of films will be undertaken to investigate how select films reflect, celebrate, modify, and criticize mainstream American values. Off campus programs may be required.

CINE 123 Queer Cinema (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A study of how historical and cultural conditions have shaped media / popular representations of people who identify as gay, lesbian, bisexual, and transgender, and how these "queer" subjects and communities have responded through viewing practices and alternative film and video production.

CINE 125 Beginning Single Camera Film and Video Production (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: CINE 100
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: DBA 125
This course provides an introduction to the theory, terminology, and operation of single camera film and video production as it applies to narrative storytelling for film and television. Areas of study include basic elements of screenwriting and production design, cinematography including camera operation, digital video and audio recording and basic editing techniques. It focuses on the aesthetics and fundamentals of scripting, producing, directing on location, postproduction and exhibition/distribution. Students may shoot on Super 8mm, 16mm film or digital video.

CINE 170 Introduction to Video Editing (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Graded Only
Cross listed as: DBA 170
Provides an introduction to the basic techniques, theories, and practices associated with post-production video, audio and animation work while serving as an introduction to Adobe Premiere and Adobe After Effects.

CINE 225 Intermediate Single Camera Film and Video Production (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: CINE 125
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: DBA 225
This course provides an introduction to the basic theory, terminology, and practice of motion picture production as applied in feature films, and films made for television, documentary film, and internet through developed skill sets, and teamwork in pre-production, production, and post-production processes. Topics include basic cinematography including the operation, function and creative uses of production and post-production equipment, scriptwriting, camera operation, shot composition, lighting, sound recording and mixing, and editing.

CINE 270 Advanced Video Editing (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: DBA 170, or GCMW 165
Transferability: CSU
Grading: Graded Only
Cross listed as: DBA 270
Advanced non-linear video editing, animation and compositing principles and techniques for broadcast television and film. Extensive employment of Adobe Premiere and After-Effects in a project-driven environment.

CINE 275 Avid Editing for Television and Film (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Graded Only
Cross listed as: DBA 275
Principles and techniques of editing video and film projects using Avid technology. Digitizing source material, storyboarding, timeline, audio editing, importing and exporting graphics, outputting, and media management.

CMPST-Composites

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

CMPST 110 Introduction to Composites, Mold Prep, and Tooling (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: MACH 117 and IT 108
Transferability: CSU
Grading: Grade/Pass/No Pass
This course introduces composite engineering materials. Topics include the selection and processing of composites, mold prep with part release, and tool selection. Upon completion, students should be able to select appropriate materials and demonstrate knowledge in processing and curing of composites.

CMPST 111 Composites Bagging and Materials (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: CMPST 110
Transferability: CSU
Grading: Grade/Pass/No Pass
This course covers the properties and forms of various resins used in manufacturing commercial bag and vacuum composites and the processes for commercial application. Emphasis is placed on materials used, including polyester and/or vinyl, ester resins, and processes of hand lay-up vacuum, bag, and vacuum-assisted resin transfer molding.

CMPST 130 Composites Repair (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: CMPST 110
Transferability: CSU
Grading: Grade/Pass/No Pass
In this course, students will learn basic and advanced composite repair methods. Students will cover repair assessment, types of damage and repair, and replacing damaged composite materials.

CMPST 210 Composite Machining and Part Finish (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: CMPST 110
Transferability: CSU
Grading: Grade/Pass/No Pass
Students in this course are introduced to many aspects of machining composite materials. The basic tools for machining will be covered first, followed by more advanced machining with the waterjet cutter. In Part Finish, the steps necessary to produce a finished composite part ready for final assembly will be explained. Students will explore surface preparation, sanding techniques, and priming and painting composite parts.

CMPST 211 Composite Engineering, Pattern and Mold Construction (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: CMPST 110
Transferability: CSU
Grading: Grade/Pass/No Pass
Students will fabricate a part from composite materials. Students will develop a working set of drawings for a part of their design. Students will then fabricate that design with high strength to weight being the main objective. Pattern and mold making are essential skills for the Composites Technician who wants to create their own custom parts. Whether as an entrepreneur or employee, the ability to develop custom molds allows for the construction of almost limitless composite configurations.

COMM-Communications

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

COMM 100 Introduction to Mass Communication (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID JOUR 100
A multi-media approach to a comparative survey of communication in studying the history, structure, economic and social impact of television, cinema, radio, journalism, Internet and new forms of communication.

COMM 104 Introduction to Public Relations (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
A survey of public relations history, theories, and practices with emphasis on applications to business, public agencies and institutions. A practical approach to using the media, creating press releases, organizing and executing campaigns, and promoting favorable relations with various segments of the public.

COMM 105 Race, Gender and Media Effects (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An analysis of the changing social and ethical issues that confront both our mass communication systems and the public. The media's role in reflecting, creating, and controlling human values, both personal and social. Examination of images of women, African-Americans, Native Americans, Asian-Americans, and Latinos in the mass media and their sociological consequences.

COMM 204 Public Relations Writing and Media Strategies (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course provides students with communication skills required to work as public relations professionals. The course teaches students to write strategically and effectively using a variety of public relations tactics.

COMM C1000 Introduction to Public Speaking (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID COMM 110
In this course, students learn and apply foundational rhetorical theories and techniques of public speaking in a multicultural democratic society. Students discover, develop, and critically analyze ideas in public discourse through research, reasoning, organization, composition, delivery to a live audience and evaluation of various types of speeches, including informative and persuasive speeches. Emphasis will be placed on the collection, analysis, and organization of material appropriate to typical public address situations, as well as on the linguistic, vocal, and physical skills needed for effective delivery.
Notes:
Formerly SPCH 100

COUN-Counseling

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

COUN 101 Transfer Success (1.00)
1.00 hours lecture
Transferability: UC/CSU
Grading: Pass/No Pass Only
Provides the necessary strategies for academic success and the research skills essential for developing a comprehensive transfer plan. Topics will include the transfer process, major selection, student support services, evaluating universities, and clarifying educational goals.
Notes:
UC-COUN 101, 110, and 148 combined: maximum credit, 3 units

COUN 110 College Success (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Provides students with the skills and knowledge necessary to reach their educational goals. Topics include academic learning strategies, college and life skills, diversity awareness and assessment of personal characteristics related to educational success. The role of race, ethnicity, gender, class, sexual orientation and age in higher education and personal identity is a central theme of the course.
Notes:
UC-COUN 101, 110, and 148 combined: maximum credit, 3 units

COUN 115 Career/Life Planning (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
A course that will motivate the student to take responsibility for the management of the student's life, to recognize the values of planning as a means of coping with uncertainty, and to relate work effectively to one's own life.

COUN 120 Quest for Identity and Life Skills (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
An exploration of the dynamics involved in the development of the individual who is in search of identity and self-discovery. An examination of one's value and belief system will be studied and compared and contrasted with other American subcultures. Emphasis will also be placed on the role of cultural traditions and practices as well as a set of life skills that will serve to empower one's identity and understanding of self within a multicultural society. Examples of life skills include coping with the physiological effects of stress and anxiety, communicating effectively with multicultural groups, goal setting, emotional development, problem solving, critical thinking skills, and self-esteem.

COUN 148 Managing Stress and Well-Being (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Graded Only
Investigates the cultural, sociological, physiological, and psychological sources of stress and well-being across the lifespan. An examination of how the mind-body relationship is affected by personality, thoughts, life events, and messages received within a multicultural society and family will be studied. Students learn mindfulness and stress reduction techniques that resolve stress and anxiety and promote well-being physically, energetically, emotionally, cognitively, socially, and behaviorally.
Notes:
UC-COUN 101, 110, and 148 combined: maximum credit, 3 units

COUN 165 Career Search (1.00)
1.00 hours lecture
Transferability: CSU
Grading: Pass/No Pass Only
Designed to assist students select a career goal. This will be accomplished by identifying the students' career interests, personality type, work values, and transferable skills as they relate to occupations.
Notes:
Pass/No Pass grading only

COUN 170 Major Search (1.00)
1.00 hours lecture
Transferability: CSU
Grading: Pass/No Pass Only
This course is designed to assist students to select a major goal and create an educational plan. This will be done by identifying academic interests and through researching career options.

CS-Chicano Studies

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

CS 100 Introduction to Chicano Studies (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course surveys the origins of Chicana/o Studies in relation to contemporary Chicano culture. Analysis placed on the development of the field and theories of racialization and intersectionality. A cultural politics approach examines a range of expressive arts such as: muralism, film, literature, music, comedy, dance, and celebrations. Intended for students interested in history, Chicano and Ethnic Studies, or other social issues.

CS 101 United States History from a Chicano Perspective I (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A survey of the Americas from 1492 to the mid-1800s, with an emphasis on understanding the impact of European invasion of the Americas through colonialism and imperialism while making connections between the past and the present. Chicano, Mexican, and Indigenous resistance, decolonization, and cultural survival are analyzed. The course introduces concepts such as race and racism, white supremacy, settler colonialism, and historical trauma in the Americas. Intended for students interested in history, Chicano, and Ethnic Studies or other social sciences.
Notes:
This course plus CS 102 meets the State requirement in American History and Institutions.

CS 102 United States History from a Chicano Perspective II (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A survey course in Chicana/o and American history that covers the period from 1840 to the present. Emphasis is placed on the Mexican origin population in the United States with a focus on social, political, and economic issues. Topics include the U.S.-Mexican War, systematic racism and segregation, lynching of Mexicans, the Zoot Suit Riots, the Chicano Movement, and the Ban on Mexican American Studies. Intended for students interested in history, Chicano and Ethnic Studies, or other social issues.
Notes:
This course plus CS 101 meets the State requirement in American History and Institutions.

CS 140 Chicana History and Feminism (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the study of the Chicana in American society in historical and sociological perspective. Emphasis is placed on Chicana feminist scholarship, cultural representations, and resistance to racism, patriarchy, and white supremacy. This course is designed for all students interested in Gender, Chicana, and Ethnic Studies.

CS 155 Ancient Civilizations of Meso-America (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: ANTH 155
Civilizations of Pre-Columbian Mexico and Central America with a focus on their origins and achievements.

CS 160 US-Mexican International Border (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course will teach the history, culture, economics, and politics of the US-Mexican border. Theories and policy issues surrounding the development of the region will focus on historical problems and social movements along the US-Mexican border, in particular impacting Mexican, Latinx, and Native communities on both sides of the border.
Notes:
History, culture, economics, and politics of the US-Mexican border region will be addressed. Theories and policy issues surrounding development of the region will focus on historical problems and social movements along the US-Mexican, in particular impacting Mexican, Latinx, and Native communities on both sides of the border.

CSCI-Computer Science and Information Technology - Computer Science

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

CSCI 112 Programming Fundamentals I (4.00)
3.50 hours lecture - 1.50 hours lab
Transferability: UC/CSU
Grading: Graded Only
Introduction to the basic concepts of Computer Science, the fundamental techniques for problem solving, and the software development process. Includes the syntax and semantics of the C programming language focusing on basic control structures, data types, and input/output.

CSCI 114 Programming Fundamentals II (4.00)
3.50 hours lecture - 1.50 hours lab
Prerequisite: CSCI 112
Transferability: UC/CSU
Grading: Graded Only
Object-oriented programming in Java, focusing on classes, instances, methods, interfaces, encapsulation, overloading, file I/O, inheritance, polymorphism, and exception handling.

CSCI 130 Linux Fundamentals (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
An introduction to fundamental end-user skills and tools in Linux, designed for students with little or no command-line Linux or UNIX experience. Emphasis on command line to run shell tools, and to automate routine functions.

CSCI 160 Overview of the Video Game Industry (4.00)
4.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Survey of the historical, technological, business, social and psychological aspects of the video game industry. Intended for those considering a career in the video game industry, or those with a strong interest in video games and how they are made.

CSCI 161 Video Game Design (4.00)
4.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
An introduction to video game design, including the study of various genres of games, and the preparation of a game design document. Intended for those considering a career in the video game industry, or those with a strong interest in video games and how they are made.

CSCI 210 Data Structures (4.00)
3.50 hours lecture - 1.50 hours lab
Prerequisite: CSCI 114
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A systematic study of data structures, including arrays, stacks, recursion, queues, linear and non-linear linked lists, binary trees, hashing, comparative study of searching and sorting algorithms, graphs, Huffman codes, introductory analysis of algorithms, introduction to the complexity of algorithms including big-Oh notation.

CSCI 212 Machine Organization and Assembly Language (4.00)
3.50 hours lecture - 1.50 hours lab
Prerequisite: CSCI 114
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to Assembly Language programming. Language syntax is covered, together with a study of the instruction set mnemonics, segment, index, pointer, general purpose and flag registers. A variety of memory addressing techniques will be covered, as well as stack operations, particularly those associated with passing parameters to subroutine calls. Also includes I/O to screen, printer, and disk interfaces. Emphasis will be placed on interaction between the student's code and the operating system's supplied functions for I/O to peripheral devices. Use of editor and debugging tools will also be addressed. Students will also be introduced to writing scripting language on a Linux operating system to navigate and compile their programs.

CSCI 222 C++ and Object-Oriented Programming (4.00)
3.50 hours lecture - 1.50 hours lab
Prerequisite: CSCI 114
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Detailed study of the C++ programming language and its support for data abstraction and object-oriented programming. Presents an introduction to the fundamental elements of object-oriented programming including encapsulation, classes, inheritance, polymorphism, templates, and exceptions. Students will learn concepts in development of C++ software to scale according to system and hardware demands including algorithm design optimization, efficient memory handling, and efficient coding techniques.

CSCI 250 Introduction to Artificial Intelligence (4.00)
3.50 hours lecture - 1.50 hours lab
Prerequisite: CSCI 114
Transferability: CSU
Grading: Grade/Pass/No Pass
A hands-on introduction to Artificial Intelligence. Topics include: AI history & applications, neural networks, supervised & unsupervised learning, machine learning programming frameworks, computer vision, text and sequences, AI enabling technologies and limits. The course includes hands-on exercises and projects, in which students will learn how to apply common Artificial Intelligence and Machine Learning algorithms to real world problems in fields of computer vision and natural language understanding.

CSCI 260 Video Game Programming I (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: CSCI 222
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to the programming of video games. Course will explore 3D game development with the current version of DirectX. Students learn how to create 3D games as well as the basics of designing and using a 3D engine. Includes hands-on laboratory experience reinforcing the lecture, text, and course materials.

CSCI 290 Introduction to Machine Learning (4.00)
3.50 hours lecture - 1.50 hours lab
Prerequisite: CSCI 114
Transferability: CSU
Grading: Grade/Pass/No Pass
A hands-on introduction to Machine Learning. Topics include: Supervised learning, including classification, and regression techniques; Unsupervised learning, including density estimation, clustering, and dimensionality reduction techniques; Reinforcement learning. The course includes hands-on exercises and projects, in which students will learn how to apply the Machine Learning algorithms to real world problems in fields of computer vision and natural language understanding.

CSIT-Computer Science and Information Technology - Information Technology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

CSIT 105 Computer Concepts and Applications (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID ITIS 120
The study of computer concepts and basic proficiency in modern application software. Computer concepts will focus on basic terminology; computer literacy; information literacy; hardware; software; information systems; state-of-the-art technology; structured design techniques, overview of the computer industry; ethics and current issues including virus protection and prevention. Hands-on introduction to Windows operating system and application software including basic proficiency of the Internet; browsers and e-mail. The Microsoft Office Suite will be taught using Word, Excel, Access and PowerPoint.
Notes:
No transferable credit if taken after CSCI 108 or 110 C-ID ITIS 120

CSIT 125 Computer Information Systems (3.00)
2.00 hours lecture - 3.00 hours lab
Recommended Preparation: CSIT 105
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Examination of information systems and their role in business. Focus on information systems, database management systems, networking, e-commerce, ethics and security, computer systems hardware and software components. Application of these concepts and methods through hands-on projects developing computer -based solutions to business problems.

CSIT 128 Foundations of Data Science (4.00)
3.50 hours lecture - 1.50 hours lab
Prerequisite: MATH 115, or MATH 115E, or STAT C1000, or STAT C1000E, or MATH 140, or MATH 140E, or MATH 127, or MATH 135, or Eligibility determined by the Math placement process.;
Recommended Preparation: CSIT 175
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to the foundations of data science from three perspectives: inferential thinking, computational thinking, and real-world relevance. The course teaches critical concepts and skills in computer programming and statistical inference in conjunction with hands-on analysis of real-world datasets, as well as social issues surrounding data analysis such as privacy and design.

CSIT 150 Introduction to SQL (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Intended for individuals who want to learn how to search for and manipulate data in a database, create tables and indexes, handle security, control transaction processing, and learn the basics of how to design a database.

CSIT 165 R Programming (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of any course between MATH 110 and 245 (excluding MATH 197, MATH 120, or PSYC/SOC 205, or BUS 204) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to the R programming language. R is becoming the leading programming language and environment to assist data analyst, statisticians, and researchers develop statistical computing and graphics programs.

CSIT 175 Python Programming (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Provides the knowledge and skills necessary to use the Python programming language to develop software for Desktop and Web applications Topics of study include the fundamentals of the language, using lists, dictionaries and creating functions and classes

CSIT 180 C# Programming I (3.00)
2.50 hours lecture - 1.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Provides the knowledge and skills necessary to use the C# programming language. Emphasis will be placed on application design, problem solving, logic, and programming for GUI and command driven programs. Focus will be on program development techniques and processes of the software development life cycle utilizing the C# programming language.

CSIT 226 Data Visualization (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides knowledge and skills necessary to develop business intelligence dashboards using Data Analytics and Data Visualization technology. Industry leading tools like Tableau will be utilized to perform data visualization and build graphical dashboards. In addition, this course will briefly cover data virtualization to connect data from multiple sources for data visualization.

CSIT 230 Data Modeling (3.00)
2.00 hours lecture - 3.00 hours lab
Recommended Preparation: CSIT 125
Transferability: CSU
Grading: Grade/Pass/No Pass
A systematic study of data modeling to assist data scientist, educators, researchers to unlock the skills of computational intelligence. Development in Excel along with current programming tools such as Power BI, Power Pivot and DAX will be utilized.

CSIT 275 Advanced Python Programming (3.00)
2.50 hours lecture - 1.50 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): CSIT 175
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Provides the advanced knowledge and skills necessary to use the Python programming language to develop software to analyze big data. Topics of study include creating functions and classes, implementing data structures, error handling, file processing, and data visualization. The course includes hands-on exercises and projects, in which students will apply Python programs to analyze real world big data problems in fields of machine learning, data science, ArcGIS, and cloud computing.

CSIT 280 C# Programming II (3.00)
2.50 hours lecture - 1.50 hours lab
Prerequisite: CSIT 180
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Provides intermediate-level knowledge and skills necessary to use the C# programming language. Topics include language syntax, data types, operators, exception handling, casting, string handling, data structures, collection classes and delegates. Programming of windows-based applications is presented along with object-oriented programming that includes classes, methods, polymorphism and inheritance. Event-driven programming is discussed along with the C# development and execution environment.

CSNT-Computer Science and Information Technology - Networking

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

CSNT 110 Hardware and O.S. Fundamentals (4.00)
3.50 hours lecture - 1.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides the knowledge and skills necessary to build a foundation in computer hardware and operating systems. Includes P.C. hardware and operating system fundamentals; installation, configuration and upgrading; diagnosing and troubleshooting; preventative maintenance; motherboards, processors, and memory; printers; and basic networking including network operating systems. Maps to Comptia A+ Industry Exam.

CSNT 111 Networking Fundamentals (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides the knowledge and skills necessary to build a solid foundation in computer networking. Includes networking fundamentals, the OSI model, subnetting, features and functions of networking components, and the skills needed to install, configure, and troubleshoot basic networking hardware peripherals and protocols.

CSNT 120 Windows Client and Microsoft Office Deployment (3.00)
2.50 hours lecture - 2.00 hours lab
Prerequisite: CSNT 111; CSNT 110
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides the knowledge and skills necessary to install and configure Microsoft Windows Client (current version) on stand-alone computers and on client computers that are part of a network. Provides the knowledge and skills to deploy Microsoft Office.

CSNT 121 Windows Server (3.00)
2.50 hours lecture - 2.00 hours lab
Prerequisite: CSNT 111
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides the knowledge and skills necessary to install, configure, and administer a Microsoft Windows Server (current version) in a Network. Typical network services and applications include Windows Server, Cloud and Azure, DNS, Active Directory, Group Policy, Hybrid Server Management, Storage Services, File Services, Virtualization and Containers, On Prem and Hybrid Connectivity.

CSNT 122 Windows Server Advanced (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: CSNT 111
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides the knowledge and skills required to secure Windows servers, manage advanced active directory tasks, implement disaster recovery, migrate servers and workloads, manage performance and monitor and troubleshoot server environments.

CSNT 124 Implementing a Microsoft Desktop Application Environment (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: CSNT 121
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides the knowledge and skills necessary to design and prepare the desktop application environment. Design and implement a presentation virtualization environment, design and implement an application virtualization environment, deploy and manage the application environment, and design business continuity for the desktop and application environment.

CSNT 130 Linux Administration (3.00)
2.50 hours lecture - 1.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Prepares students in specific areas of Linux including Installation and Localization, Users and Groups, System Monitoring, Boot and Shutdown, Disk and File Management, Networking and Security, GUI and Desktops, Hardware Installation, Cloud and Virtualization, Software Installation, Processes and System Services, Scripting and Automation. Prepares students for certification in Redhat Linux.

CSNT 150 AWS Academy Cloud Foundations (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
AWS Academy Cloud Foundations is intended for students who seek an overall understanding of cloud computing concepts, independent of specific technical roles. It provides a detailed overview of cloud concepts, AWS core services, security, architecture, pricing, and support. General virtualization infrastructure concepts will also be explored.

CSNT 151 AWS Academy Cloud Architecting (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
AWS Academy Cloud Architecting covers the fundamentals of building IT infrastructure on AWS. The course is designed to teach solution architects on how to optimize their use of the AWS Cloud by understanding AWS services and how they fit into cloud-based solutions. Although architectural solutions can differ depending on the industry, type of application, and size of the business, this course emphasizes best practices for the AWS Cloud that apply to all of them. It also recommends various design patterns to help you think through the process of architecting optimal IT solutions on AWS. Throughout the course, students will explore case studies that showcase how some AWS customers have designed their infrastructures and the strategies and services that they have implemented. Finally, this course provides opportunities for students to build a variety of infrastructures through a guided, hands-on approach.

CSNT 152 AWS Academy Cloud Developing (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
AWS Academy Cloud Developing is designed to help students gain technical expertise in development using cloud technologies and prepare them to take the AWS Certified Developer – Associate level AWS Certification exam.

CSNT 153 AWS Academy Cloud Operations (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
AWS Academy Cloud Operations is designed to prepare participants to pursue entry-level DevOps, support, and cloud operations roles. It will also help prepare them to take the AWS SysOps Administrator – Associate exam. Emphasizing best practices in the AWS Cloud and recommended design patterns, this course will teach students how to solve problems and troubleshoot various scenarios. The course will show students how to create automatable and repeatable deployments of networks and systems on AWS and covers specific AWS features and tools related to configuration and deployment. With case studies and demonstrations, students will learn how some AWS customers design their infrastructures and implement various strategies and services. Students will also have the opportunity to build a variety of infrastructures via guided, hands-on activities.

CSNT 160 Cisco Networking (3.00)
2.50 hours lecture - 2.00 hours lab
Prerequisite: CSNT 110; **Recommended Preparation:** CSNT 111
Transferability: CSU
Grading: Grade/Pass/No Pass
Preparation for Cisco Industry Certification (CCNA). Gives students skills in Networking Concepts, IPv6 Routing, Access Control Lists, Cisco Devices, Wireless Networks, Network Management, IP Addressing, WAN Implementation, Network Security, IPV4 Routing, Advanced Switching, and Cryptography.

CSNT 161 Cisco Router Configuration (3.00)
2.50 hours lecture - 2.00 hours lab
Prerequisite: CSNT 160
Transferability: CSU
Grading: Grade/Pass/No Pass
Development of knowledge and skills to install, configure, customize, maintain and troubleshoot Cisco routers and components. This 70-hour course of instruction prepares the student for the Cisco certification examination.

CSNT 181 Hacker Prevention/Security (3.00)
2.50 hours lecture - 1.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
In-depth analysis and hands-on experience in PC and network security concepts specific to Microsoft, Unix-based, and Cisco systems. Various topics including hacker prevention and intrusion detection, firewall installation and configuration, wireless network security, disaster recovery, access control lists, identification of malicious code, cryptography and forensics. Team dynamics in a lab environment, planning, installing, and configuring various network security elements regarding hardware, software, and media. Understand and demonstrate proper planning and implementation of a secure network, document and offer training to end-users, executives, and human resources on the proper maintenance of a secure network.

CSNT 250 Cyber Defense and Analysis (3.00)
2.00 hours lecture - 3.00 hours lab
Recommended Preparation: CSNT 181
Transferability: CSU
Grading: Grade/Pass/No Pass
Evaluation of cyber security team functions as it pertains to the analysis of organizational defensive measures, threat management and incident response. Topics covered include threat reconnaissance, securing a corporate network, vulnerability management, identity management and secure software coding. Students will learn the process of securing a corporate network, identifying vulnerabilities that can be exploited and responding to a cyber security incident.

CSNT 255 Ethical Hacking Principles (3.00)
2.00 hours lecture - 3.00 hours lab
Recommended Preparation: CSNT 181
Transferability: CSU
Grading: Grade/Pass/No Pass
In-depth analysis and hands-on practical experience in computer and network security concepts from an ethical hacking perspective. Various topics include penetration testing methodology, mobile platform attacks, and cloud computing defenses. Students will be taught the five phases of ethical hacking, which include reconnaissance; gaining access; account enumeration; maintaining access, and covering your tracks. Students will learn how to assess the security posture of an organization and use the same techniques malicious hackers use to identify vulnerabilities and remediate problems before a successful attack is perpetrated. Technical knowledge and critical thinking skills will be developed to explore the challenges and legal issues of cybersecurity testing.

CSNT 260 Cisco Advanced Routing and Switching (3.00)
2.50 hours lecture - 2.00 hours lab
Prerequisite: CSNT 161
Transferability: CSU
Grading: Grade/Pass/No Pass
Development of knowledge and skills to configure advanced routing protocols, Local Area Networks (LANs), and LAN switching. Design and management of advanced networks. This 70-hour course of instruction prepares the student for the Cisco certification examination.

CSNT 261 Cisco Wide Area Network Design and Support (3.00)
2.50 hours lecture - 2.00 hours lab
Prerequisite: CSNT 260
Transferability: CSU
Grading: Grade/Pass/No Pass
Development of knowledge and skills to design and configure advanced Wide Area Network (WAN) projects using Cisco IOS command set. This 70-hour course of instruction prepares the student for the Cisco certification examination.

CSNT 280 Computer Forensics Fundamentals (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduces methods used to properly conduct a computer forensics investigation beginning with a discussion of ethics, while mapping to the objectives of the International Association of Computer Investigative Specialists (IACIS) certification. Topics covered include an overview of computer forensics as a profession; the computer investigation process; understanding operating systems boot processes and disk structures; data acquisition and analysis; technical writing; and a review of familiar computer forensics tools.

CSWB-Computer Science and Information Technology - Web Technology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

CSWB 110 Web Site Development with HTML5/CSS3 (3.00)
2.00 hours lecture - 3.00 hours lab
Recommended Preparation: CSIT 105
Transferability: CSU
Grading: Grade/Pass/No Pass
A foundation course for Internet/Intranet technologies. Skills required to develop and publish web sites utilizing HTML, including using HTML tables, web page forms, and basic CSS (Cascading Style Sheets).

CSWB 120 JavaScript and PHP (3.00)
2.00 hours lecture - 3.00 hours lab
Recommended Preparation: CSWB 110
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduces the skills required to design Web-based applications using the JavaScript scripting language such as writing small scripts; working with data types; creating interactive forms using various form objects; and using the advanced features of JavaScript including loops, frames and cookies. Additionally, the basics of using the cloud-based PHP programming language are covered, including retrieving and validating data from a web form, processing logic on a web server, and storing and retrieving information on a web server.

CSWB 150 PHP with MySQL (3.00)
2.00 hours lecture - 3.00 hours lab
Recommended Preparation: CSWB 110
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides the knowledge and skills necessary to use the PHP scripting language to develop dynamic Web-based applications. Topics of study include the fundamentals of the scripting, using PHP with HTML forms, creating functions, and integrating with databases using MySQL.

DA-Dental Assisting

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

DA 47 Dental Assisting Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Grading: Pass/No Pass Only
Topics in Dental Assisting. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. Non-degree Applicable

DA 50 Introduction to Dental Sciences and Dental Occupations (3.00)
3.00 hours lecture
Grading: Graded Only
General orientation to dental assisting. Introduction to basic oral anatomy, oral hygiene techniques and prevention, human behavior, dental nomenclature, dental assisting, history of dentistry, ethics, role of the dental assistant and other auxiliary personnel; licensing and certification of dental assistants; dental jurisprudence and malpractice; California Dental Practice Act, psychology and observation in dental offices.

DA 57 Dental Sciences and Anatomy (3.00)
3.00 hours lecture
Grading: Graded Only
Introduction of dental terminology, histology, embryology, tooth growth, eruption, and anatomy; head and neck anatomy, and physiology of the body. Form and function of individual teeth, occlusion, oral pathology, diet and nutrition, relation of oral health to general health, microbiology, disease control and dental pharmacology.

DA 60 Dental Materials (3.50)
3.00 hours lecture - 1.50 hours lab
Prerequisite: Admission to the Registered Dental Assisting Program
Grading: Graded Only
Chemical properties and uses of dental materials and solutions; manipulative techniques and methods of preparation.

DA 65 Dental Practice Management (2.00)
2.00 hours lecture - 1.00 hours lab
Grading: Graded Only
Reception and care of the patient in the dental office, communication skills, telephone techniques, appointment scheduling, dental computer software, dental records (charting health and dental history), filing, bookkeeping, accounts receivable and accounts payable, inventory management, principles of and use of insurance forms and collections.

DA 70 Dental Radiography I (2.50)
2.00 hours lecture - 2.00 hours lab
Prerequisite: Admission to the Registered Dental Assisting Program
Grading: Graded Only
Theory and technique of oral radiography, radiation hygiene, anatomical landmarks, and methods and materials for processing radiographs using film and dental radiography. The laboratory portion will provide the student with knowledge concerning film and digital sensor placement, cone angulation, exposing and developing radiographs, and mounting and evaluating processed films and digital radiographs.

DA 71 Dental Radiography II (0.50)
1.50 hours lab
Prerequisite: DA 50; DA 70; proof of Hepatitis B Immunization; current BLS for Healthcare Providers Certificate
Grading: Graded Only
Advanced clinical experience regarding film and digital sensor placement, cone angulation, exposing and developing radiographs, mounting and evaluating radiographs.

DA 75 Dental Operative Procedures (5.00)
3.00 hours lecture - 6.00 hours lab
Grading: Graded Only
Applications of and introduction to preclinical dental assisting in operative and specialty dental procedures, care of equipment, instrumentation, infection control, disease transmission, charting, utilization of dental materials, dental office emergencies, and functions delegated to the California Registered Dental Assistant.

DA 82 Preventive Dentistry I (1.50)
1.00 hours lecture - 1.50 hours lab
Grading: Graded Only
This course teaches laboratory and clinical applications of coronal polishing, periodontics, preventive dentistry and placement of pit and fissure sealants.

DA 83 Preventive Dentistry II (0.50)
1.50 hours lab
Prerequisite: DA 82
Grading: Pass/No Pass Only
Application of concepts and skills from DA 82. Emphasis is on the coronal polishing procedure and pit and fissure sealants as applied to clinical patients.

DA 85 Advanced Dental Procedures (5.00)
3.00 hours lecture - 6.00 hours lab
Prerequisite: DA 50; DA 60; DA 75
Grading: Graded Only
Advanced laboratory and clinical experience focusing on basic skills previously learned. Emphasis is placed on 1) clinical use of impression materials for obtaining study models, 2) pouring and trimming plaster and stone models, 3) fabrication of custom trays, 4) fabrication of provisional restorations and 5) advanced prosthodontic and orthodontic instruction.

DA 91 Clinical Rotation I (1.00)
3.00 hours lab
Prerequisite: DA 75
Grading: Pass/No Pass Only
An introductory clinical externship course working with dentists, dental staff and dental patients at assigned clinical site.

DA 92 Advanced Clinical Rotation (5.00)
15.00 hours lab
Prerequisite: DA 91
Grading: Pass/No Pass Only
An intensive program of clinical dental experiences, working with patients and staff at clinics and/or private dental offices. Students will assist the dentists in specialized and operative procedures and duties delegated to the California licensed Registered Dental Assistant.

DA 97 Dental Assisting Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Grading: Pass/No Pass Only
Topics in Dental Assisting. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

DBA-Digital Broadcast Arts

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

DBA 100 Introduction to Radio and TV (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Graded Only
A survey of American broadcasting, its development, impact and influence on our society; basic principles, mass communication theory, station operation programming, advertising, rating services, cable television, regulation, and censorship; in depth analysis of current issues and developments.

DBA 105 Multimedia Storytelling (2.00)
2.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Backpack Journalism is a new field born from traditional media outlets such as broadcast news, print journalism, public radio and the hallmarks of our contemporary digital era; social media, vlogging and the internet's unquenchable appetite for multi-media content. This course introduces students to the basic skills and techniques required of modern journalists and digital storytellers - from capturing clean and compelling video, audio and interviews to crafting and editing short, character driven narratives worthy of your world's attention.

DBA 110 Broadcast and Media Writing (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Graded Only
Introductory course in writing for TV and radio broadcast, and a variety of digital media platforms. An emphasis is placed on proper formatting, technical, conceptual and stylistic issues related to writing for informational and entertainment purposes in a variety of media scripts.
Notes:
May not be taken for Pass/No Pass grading

DBA 115 Creative Writing for Television and Cinema (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: CINE 115
Basic introductory course in narrative script writing for film and episodic television. Emphasis on basic screenplay structure, characters, conflict, theme and technical script formatting in the development of a short screenplay.

DBA 120 Digital Television Studio Production (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Graded Only
The course introduces theory, terminology, practices, and aesthetic considerations of visual and sound productions in a multi-camera television studio and control room. Topics include studio signal flow, directing, theory and operation of camera and audio equipment, switcher operation, fundamentals of lighting, graphics, video control and video recording and real-time video production.
Notes:
May not be taken for Pass/No Pass grading

DBA 125 Beginning Single Camera Film and Video Production (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: CINE 100
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: CINE 125
This course provides an introduction to the theory, terminology, and operation of single camera film and video production as it applies to narrative storytelling for film and television. Areas of study include basic elements of screenwriting and production design, cinematography including camera operation, digital video and audio recording and basic editing techniques. It focuses on the aesthetics and fundamentals of scripting, producing, directing on location, postproduction and exhibition/distribution. Students may shoot on Super 8mm, 16mm film or digital video.

DBA 130 Radio Production (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Graded Only
Introductory course in the theory and application of audio production techniques for radio and podcasting. Students will gain a basic understanding of audio equipment in both live and pre-recorded broadcasting (podcasting). This includes recording equipment, mixers, digital audio production, radio program formats, broadcast writing and announcing skills. A program produced by the student will be broadcast on college radio station KKSM.
Notes:
May not be taken for Pass/No Pass grading

DBA 135A Basic Radio Station Operations (3.00)
9.00 hours lab
Prerequisite: DBA 130
Transferability: CSU
Grading: Graded Only
Introduction to radio station operations and audio production skills along with practical exercises using broadcast equipment and techniques.
Notes:
May not be taken for Pass/No Pass grading

DBA 135B Beginning Radio Station Operations (3.00)
9.00 hours lab
Prerequisite: DBA 135A
Transferability: CSU
Grading: Graded Only
Beginning radio station operations and audio production skills with emphasis on developing a format radio show.
Notes:
May not be taken for Pass/No Pass grading

DBA 135C Intermediate Radio Station Operations (3.00)
9.00 hours lab
Prerequisite: DBA 135B
Transferability: CSU
Grading: Graded Only
Intermediate radio station operations and audio/editing production skills with emphasis on creating a unique radio show.
Notes:
May not be taken for Pass/No Pass grading

DBA 135D Advanced Radio Station Operations (3.00)
9.00 hours lab
Prerequisite: DBA 135C
Transferability: CSU
Grading: Graded Only
Advanced radio station programming operations and audio production editing. Special emphasis in broadcast management training.
Notes:
May not be taken for Pass/No Pass grading

DBA 170 Introduction to Video Editing (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Graded Only
Cross listed as: CINE 170
Provides an introduction to the basic techniques, theories, and practices associated with post-production video, audio and animation work while serving as an introduction to Adobe Premiere and Adobe After Effects.

DBA 220 TV Production and Directing (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Graded Only
Techniques and theories of television production and direction. Practice in pre-production planning, staging, studio production, and editing. Duties and responsibilities of director and production crew. Production of fully scripted television programs for airing on cable and broadcast stations.

DBA 225 Intermediate Single Camera Film and Video Production (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: CINE 125
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: CINE 225
This course provides an introduction to the basic theory, terminology, and practice of motion picture production as applied in feature films, and films made for television, documentary film, and internet through developed skill sets, and teamwork in pre-production, production, and post-production processes. Topics include basic cinematography including the operation, function and creative uses of production and post-production equipment, scriptwriting, camera operation, shot composition, lighting, sound recording and mixing, and editing.

DBA 230 Digital Audio Avid Pro Tools (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Principles and techniques of editing radio, television, and film audio projects using Avid Pro Tools software and technology. Digitizing audio source material, working knowledge of Avid Pro Tools interface, use of multi-track audio editing system, mic and recording techniques.

DBA 240A Basic Television News/Sports (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): DBA 120
Transferability: CSU
Grading: Graded Only
Basic principles of broadcast scripting, gathering, and editing of television news and/or sports. Learn the technical studio production elements of a news or sports cast.

DBA 240B Beginning Television News/Sports (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: DBA 240A
Transferability: CSU
Grading: Graded Only
Students perform as members of the TV News and Sports broadcast team at a beginning level. Students will assist in the production of the College's various live newscasts and sportscasts for airing on cable television, and will participate in a variety of TV broadcast roles.

DBA 240C Intermediate Television News/Sports (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: DBA 240B
Transferability: CSU
Grading: Graded Only
Intermediate level skills are applied as members of the on-air crew and production team, producing TV News and Sports broadcasts. Students will produce the College's various live newscasts and sportscasts for airing on cable television, participating in a variety of TV broadcast roles.

DBA 240D Advanced Television News/Sports (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: DBA 240C
Transferability: CSU
Grading: Graded Only
Advanced principles and application of techniques and theory of local TV News reporting, sports reporting, news gathering, producing, and editing an ongoing weekly TV news/sports program. Production of newscasts for airing on cable television.

DBA 270 Advanced Video Editing (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: DBA 170, or GCMW 165
Transferability: CSU
Grading: Graded Only
Cross listed as: CINE 270
Advanced non-linear video editing, animation and compositing principles and techniques for broadcast television and film. Extensive employment of Adobe Premiere and After-Effects in a project-driven environment.

DBA 275 Avid Editing for Television and Film (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Graded Only
Cross listed as: CINE 275
Principles and techniques of editing video and film projects using Avid technology. Digitizing source material, storyboarding, timeline, audio editing, importing and exporting graphics, outputting, and media management.

DBA 298 Broadcast Internship (1.00-3.00)
3.00-9.00 hours lab
Transferability: CSU
Note: May be taken up to 4 times for up to 12.00 total units
Grading: Graded Only
Broadcast internships at radio and television stations, Palomar College TV and KKSM radio, and video/film production facilities. Prior internship experience not required; assumes entry-level skills and production experience. May involve entry-level work on independent productions including research, scripting, and pre-production planning. Sixty hours is required for each credit unit in an unpaid internship, and seventy-five hours is required for each credit unit in a paid internship.

DBA 298B Intermediate Broadcast Internship (3.00)
9.00 hours lab
Prerequisite: DBA 298
Transferability: CSU
Grading: Graded Only
Intermediate internships at radio and television broadcast stations, Palomar College TV, cable companies, network affiliates, and other communications facilities. At least one prior internship experience required; assumes intermediate level skills and production experience, and may involve intermediate level duties and assignments. May involve intermediate level work on independent productions, including research, scripting, pre-production planning, and shooting.

DBA 298C Advanced Broadcast Internships (3.00)
9.00 hours lab
Prerequisite: DBA 298B
Transferability: CSU
Grading: Graded Only
Work on advanced television production including individual research, work on advanced college-produced programs, or internships at local Network affiliate broadcast stations, radio stations, cable companies, and other professional communications facilities.

DMT-Diesel Mechanics Technology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

DMT 100 Introduction to Diesel Mechanics (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Theory and practice of fundamental skills for the maintenance and operation of basic diesel engines. Topics for study include: basic theory of operation; engine applications; engine lubricating and cooling; intake, exhaust and fuel systems; and electronic control.

DMT 105 Heavy-Duty Diesel Tune-Up and Engine Analysis (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: DMT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
The use of software and diagnostic equipment in performing diesel tune-up. Topics include: theory of operation, tune-up procedures, fuel system function and repair, diagnostic equipment usage, electronic engine controls, mechanical and electronic engine system troubleshooting.

DMT 110 Heavy-Duty Electricity (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Heavy-duty electricity systems principles and service. Topics of study include electrical theory, batteries, wiring diagrams, 12V and 24V starters, alternators and electrical troubleshooting, and test equipment.

DMT 115 Alternative Fuels (4.00)
3.00 hours lecture - 3.00 hours lab
Recommended Preparation: DMT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Theory and servicing of alternative fueled engines. Topics for study include various types of fuels, fuel handling and safety procedures, basic principles, regulators and mixers, all system components operation and service, electronic control systems, and emission testing.

DMT 120 Air Brake Systems (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
The service and repair of heavy-duty hydraulic and air brake systems and their components. Topics of study include brake troubleshooting, complete system repair, anti-skid brake system, and related axle services.

DMT 125 Truck Transmission And Drive Lines (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Service and repair of heavy-duty truck drive lines. Topics for study include the disassembly, inspection and reassembly of single and multiple disc clutches, four to fifteen speed transmissions, universal joints, and differentials.

DMT 130 Medium-Duty Diesel Engine Tune-Up (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
The use of diesel tune-up and diagnostic equipment. Topics include: fuel systems, compression testing, fuel pump and injection timing, troubleshooting procedures, alternators, regulators, and starting systems.

DMT 135 Basic Hydraulics (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Basic hydraulic system principles and service. Topics of study include hydraulic theory, safety requirements, hydraulic diagrams and ISO symbols, component operation, service and repair troubleshooting, and test equipment usage.

DMT 200 Diesel Engine Rebuilding I (4.00)
3.00 hours lecture - 3.00 hours lab
Recommended Preparation: DMT 105; **Prerequisite:** DMT 100
Transferability: CSU
Grading: Grade/Pass/No Pass
Theory and practice in rebuilding diesel engines. Topics for study include disassembly, cleaning, inspection, and analysis of engine parts. Also included are cylinder head service, sleeve and piston service, advanced machining and measuring techniques.

DMT 201 Diesel Engine Rebuilding II (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: DMT 200
Transferability: CSU
Grading: Grade/Pass/No Pass
Theory and practice in rebuilding diesel engines. Topics for study include final cleaning, inspection and reassembly of engine parts. Also included are assembly measuring, torque procedures and torque-turn methods used on engine assembly, and engine testing upon completion of assembly.

DNCE-Dance

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

DNCE 100 Survey of Dance (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Survey of present day dance forms experienced through lecture, film, demonstration, and movement. This course covers dance as an art form, the creative process, ways to view and analyze movement, body mechanics/anatomy, prevention of injuries, education and career opportunities, and a study of various dance genres.

DNCE 101 Survey of World Dance (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Survey of World dance is designed to introduce students to other cultures through traditional music, songs, and dances from around the world. Students will have the opportunity to discover their own cultures through researching the dances of their ancestors. Students will delve into the stereotypes developed about other cultures through film, and how world cultures have changed to fit on Western stages. Students will also explore dances from a variety of cultures with an emphasis on Cuba and Brazil and dances of the African and Latin Diaspora.

DNCE 102 The Hollywood Musical: Dance on Film (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course will explore the phenomenon of dance on film in Hollywood from cultural, historical, social, economic, and gender viewpoints.

DNCE 105 Introduction to Dance History (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A survey of the development of dance from earliest civilizations to the present including Egyptian, Ancient Greek and Roman, and with emphasis on the American Indian and African American influences on the social and performance aspects of dance in the world today.

DNCE 110 Modern Dance I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Beginning modern dance techniques with emphasis on movement exploration, alignment, and creativity.

DNCE 111 Modern Dance II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Intermediate dance techniques with emphasis on increasing movement skills and creative range.

DNCE 115 Ballet I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Introduction to ballet's traditions, principles, techniques, and terminology. Includes fundamental ballet exercises at barre and center with emphasis on technique and alignment. Introduces concepts of anatomy, kinesiology, health, and wellness.

DNCE 116 Ballet II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Continued study of ballet techniques, principles, and terminology. Intermediate level with emphasis on combinations and an enlarged vocabulary of steps and terms.

DNCE 117 Pointe I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is designed to introduce concepts of pointe technique at the beginning level, while reinforcing intermediate ballet technique. Concentration will be placed on proper alignment, toe placement, ankle strength and flexibility, rotation of the legs from the hip sockets, and overall artistry.

DNCE 118 Pointe II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Designed to introduce concepts of pointe technique at the beginning/intermediate level, while reinforcing intermediate ballet technique. Concentration will be placed on proper alignment, toe placement, ankle strength and flexibility, rotation of the legs from the hip sockets, and overall artistry.

DNCE 120 Jazz Technique I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Level I jazz movement and floor progressions.

DNCE 121 Jazz Technique II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Level II jazz movement and floor progressions.

DNCE 127 Spanish Flamenco I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Specific elements of Spanish/Flamenco dance styles: castanets, footwork, and arm technique. Students will explore a variety of Flamenco dances from different regions both traditional and modern.

DNCE 128 Spanish Flamenco II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Specific elements of Spanish/Flamenco dance styles: castanets, footwork, and arm technique. Students will explore a variety of Flamenco dances from different regions both traditional and modern.

DNCE 130 Tap I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Level I skills in tap dance covering basic and traditional material.

DNCE 131 Tap II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Level II skills in tap dance with focus on new trends and styles.

DNCE 137 Cuban and Brazilian Drumming I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: MUS 137
Drum, percussion and song classes in the traditions of Escola de Samba from Rio de Janeiro, Brazil and Afro-Cuban traditions, popular and folkloric; Rumba, Congo (Makuta/Palo), Franco/Haitian (Gaga/Congo Layet)from East and West Cuba. Develop ability to work as a drum ensemble.

DNCE 138 Cuban and Brazilian Drumming II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: MUS 138
Intermediate drum, percussion and song classes in the traditions of Escola de Samba from Rio de Janeiro, Brazil and Afro-Cuban traditions, popular and folkloric; Rumba, Congo (Makuta/Palo), Franco/Haitian (Gaga/Congo Layet)from East and West Cuba. Develop ability to work as a drum ensemble.

DNCE 145 Choreography I (3.00)
3.00 hours lecture
Corequisite (Course required to be taken concurrently): DNCE 280
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Beginning choreography with emphasis on combining movements and developing ideas in relation to motivation, design, and dynamics. Discuss forms and learn how to articulate the art of dance.

DNCE 146 Choreography II (3.00)
3.00 hours lecture
Corequisite (Course required to be taken concurrently): DNCE 285
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Intermediate choreography with emphasis on combining movements and developing ideas in relation to movements and developing ideas in relation to motivation and form. Discuss forms and develop the skills to articulate the art of dance.

DNCE 147 Repertory (0.50-1.00)
1.50-3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Learning, rehearsing, and performing dances as an outreach to Palomar College, area high schools, and the community.

DNCE 148 Afro-Cuban/Brazilian Drum and Dance Ensemble/ Production I (0.50-1.50)
1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Rehearsal and performance of traditional music and dances of the African and Latin Diasporas: West African, Afro-Cuban, Afro-Brazilian, and Afro-Caribbean. Performance of original work influenced by dances of the African and Latin Diasporas. Emphasis will be on performing as an ensemble.

DNCE 149 Afro-Cuban/Brazilian Dance I (0.50-1.50)
1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A beginning movement class designed to introduce students to the unique and vibrant dance traditions of Cuba and Brazil. Introduces beginning level concepts of anatomy, kinesiology, health, and wellness as they relate to Afro-Cuban and Brazilian dance.

DNCE 150 Afro-Cuban/Brazilian Dance II (0.50-1.50)
1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Intermediate level of Afro-Cuban/Brazilian movement, with emphasis on combinations, and developing a larger vocabulary of the traditional dances explored in this class.

DNCE 151 Latin Social Dance I (0.50-1.50)
1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A movement class designed to introduce students to the vibrant Hispanic culture through contemporary social dances. Through demonstration and participation students will explore a variety of social dances that are all part of the Latin Diaspora. Also promotes life-long health and fitness practices.

DNCE 152 Latin Social Dance II (0.50-1.50)
1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A movement class designed to continue exploring the vibrant Hispanic culture through a variety of contemporary social dances. Through demonstration and participation students will explore a variety of social dances that are all part of the Latin Diaspora.

DNCE 153 Capoeira: Afro/Brazilian Martial Arts I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Designed to introduce students to the unique martial art form from Brazil known as Capoeira and promote life-long health and fitness practices.

DNCE 154 Capoeira: Afro/Brazilian Martial Arts II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Intermediate level class of the unique martial art form from Brazil known as Capoeira. Through lecture, demonstration, and movement participation students will study this multi-faceted art form.

DNCE 155 Hip Hop I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Beginning level of Hip Hop, an exhilarating class designed to introduce students to this unique contemporary dance form.

DNCE 156 Hip Hop II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Intermediate level of Hip Hop, an exhilarating class designed to introduce students to this unique contemporary dance form.

DNCE 158 Hawaiian and Tahitian Dance I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An exhilarating level one dance class designed to introduce students to the exotic Hawaiian and Tahitian culture through percussion, song, and dance. Through demonstrations and movement participation students will explore a variety of dances from these two distinct and unique cultures that are part of the Polynesian Islands.

DNCE 159 Hawaiian and Tahitian Dance II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Intermediate level of an exhilarating class designed to introduce students to the exotic Hawaiian and Tahitian culture through percussion, song, and dance. Through demonstrations and movement participation students will explore a variety of dances from these two distinct and unique cultures that are part of the Polynesian Islands.

DNCE 161 Teaching Methods in Dance (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Explore the teaching/learning/knowing process by blending current educational, teaching and learning styles with practical hands on teaching experiences. Through the constant integration of theory and practice, we will utilize our own experiences and understanding and our interpretations of theoretical literature to construct our own personal pedagogies. The construction of a safe and consistent dance environment for all ages will be covered.

DNCE 162 Near and Middle Eastern I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to classical and folkloric dances from the Near and Middle East.

DNCE 163 Near and Middle Eastern II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A more in-depth study of classical and folkloric dances for the Near and Middle East.

DNCE 165 Production Management (1.50-3.00)
1.00-2.00 hours lecture - 1.50-3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Principles and methods of organization, operation, promotion, programming, publicity, ticket sales, box office, public relations, costumes, props, and graphics. Practical experience in college and community dance productions.

DNCE 173 Musical Theatre Scenes I (1.00)
3.00 hours lab
Transferability: CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Cross listed as: MUS 173, TA 173
Rehearsal and performance of solo and group scenes from Broadway musicals dating from the 1930's to the present.

DNCE 174 Musical Theatre Scenes II (1.00)
3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: MUS 174, TA 174
A continuation of Musical Theatre Scenes I. A deeper exploration into the acting, singing, and dancing necessary for Broadway Musicals from the 1930's to present.

DNCE 182 Introduction to Arts Management (3.00)
9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: AMS 182, ART 182, MUS 182, TA 182
An introduction to the principles and practices of arts management through an interdisciplinary study of management topics in the visual and performing arts.

DNCE 183 Internship in Arts Management (3.00)
9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: ART 183, MUS 183, TA 183, AMS 183
Practical experience in arts management in the visual and performing arts.

DNCE 190 World Dance Production I (0.50-1.50)
1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Rehearsal and performance experience of World Dance. The first experience focuses on large ensemble work and musicality.

DNCE 197H Topics in Dance (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Topics in Dance. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. May be transferable to UC upon UC's review of the course syllabus.

DNCE 205 Modern Dance III (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Intermediate dance technique with emphasis on performance skills.

DNCE 206 Modern Dance IV (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Advanced level modern dance technique with an emphasis on performance skills.

DNCE 210 Ballet III (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Ballet techniques, principles, and terminology at the advanced level with emphasis on line, phrasing, endurance, and progressively difficult steps and combinations. Further explores more advanced concepts of anatomy, kinesiology, health, and wellness.

DNCE 211 Ballet IV (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Ballet techniques, principles, and terminology at the advanced level with emphasis on line, phrasing, endurance, musicality, and progressively difficult steps and combinations.

DNCE 215 Jazz Technique III (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Level III jazz movement and floor progressions.

DNCE 216 Jazz Technique IV (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Level IV jazz dance technique in commercial dance stylizations and rhythms.

DNCE 217 Pointe III (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is designed to introduce concepts of pointe technique at the Intermediate level, while reinforcing intermediate ballet technique. Concentration will be placed on proper alignment, toe placement, ankle strength and flexibility, rotation of the legs from the hip sockets, and overall musicality artistry.

DNCE 218 Pointe IV (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is designed to introduce concepts of pointe technique at the advanced level, while reinforcing advanced ballet technique. Concentration will be placed on proper alignment, toe placement, ankle strength and flexibility, rotation of the legs from the hip sockets, and overall musicality and artistry.

DNCE 225 Contemporary Dance Ensemble I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An initial rehearsal and performance experience in a dance ensemble. Includes preparing multiple works for a variety of different performing opportunities. Generally this would involve corps (group) roles.

DNCE 226 Contemporary Dance Ensemble II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A second rehearsal and performance experience in a dance ensemble. Includes preparing multiple works for a variety of different performing opportunities. Generally this would involve smaller supporting roles (smaller group work) and solo work.

DNCE 230 Tap III (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Advanced skills in tap dance with focus on new trends and styles.

DNCE 231 Tap IV (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Level IV skills in tap dance with focus on new trends and styles.

DNCE 237 Cuban and Brazilian Drumming III (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The third course in this series focuses on being able to hold supporting roles in ensemble style presentations.

DNCE 238 Cuban and Brazilian Drumming IV (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The fourth course in the series focuses on being able to hold leading roles in ensemble style presentations as well as supporting roles for the Palomar Drum and Dance Ensemble and Palomar dance classes.

DNCE 248 Afro-Cuban/Brazilian Drum and Dance Ensemble/Production II (0.50-1.50)
1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A second rehearsal and performance of traditional music and dances of the African and Latin Diasporas. Includes preparing multiple works for a variety of different performing opportunities including world festivals and campus events. Generally this would involve larger supporting roles or small ensemble work.

DNCE 249 Afro-Cuban/Brazilian Dance III (0.50-1.50)
1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Intermediate level of Afro-Cuban/Brazilian movement, with an emphasis on combinations, stylization, musicality, and progressively difficult movement, as well as full pieces of choreography.

DNCE 250 Afro-Cuban/Brazilian Dance IV (0.50-1.50)
1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Advanced level of Afro-Cuban/Brazilian movement, with an emphasis on stylization, musicality, and progressively difficult movement, as well as full pieces of choreography. This level will also focus on performance readiness.

DNCE 251 Latin Social Dance III (0.50-1.50)
1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A movement class designed to review dances from levels I & II, and introduce more advanced vocabulary. Through demonstration and movement participation students will continue to explore a variety of social dances that are all part of the Latin Diaspora.

DNCE 252 Latin Social Dance IV (0.50-1.50)
1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An advanced movement class, designed to challenge students in their knowledge and ability of contemporary Latin Social dances, presented in this family of courses. Through demonstration and movement participation students will continue to explore a variety of social dances that are all part of the Latin Diaspora.

DNCE 253 Capoeira: Afro/Brazilian Martial Arts III (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Through lecture, demonstration and movement participation students will study intermediate level Capoeira.

DNCE 254 Capoeira: Afro/Brazilian Martial Arts IV (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Through lecture, demonstration and movement participation students will study advanced level Capoeira.

DNCE 255 Hip Hop III (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Advanced level of Hip Hop, an exhilarating class designed to introduce students to this unique contemporary dance form.

DNCE 256 Hip Hop IV (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Level IV dance with focus on new trends and styles.

DNCE 258 Hawaiian and Tahitian Dance III (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An exhilarating level III dance class teaching the exotic Hawaiian and Tahitian culture through percussion, song, and dance. Through demonstrations and movement participation students will explore a variety of dances from these two distinct and unique cultures that are part of the Polynesian Islands.

DNCE 259 Hawaiian and Tahitian Dance IV (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Level IV dance technique of the exotic Hawaiian and Tahitian culture through percussion, song, and dance. Through demonstrations and movement participation students will explore a variety of dances from these two distinct and unique cultures that are part of the Polynesian Islands.

DNCE 262 Near and Middle Eastern III (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Level III study of classical and folkloric dances for the Near and Middle East.

DNCE 263 Near and Middle Eastern IV (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Advanced level IV study of classical and folkloric dances for the Near and Middle East.

DNCE 270 Contemporary Ballet Production I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Rehearsal and performance for dance concerts, outreach and community events.

DNCE 271 Classical Ballet Production I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Rehearsal and performance for dance concerts, outreach and special events.

DNCE 272 Contemporary Ballet Production II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Rehearsal and performance for dance concerts, outreach, and special events.

DNCE 273 Modern Dance Production I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Rehearsal and performance for dance concerts, outreach and special events.

DNCE 274 Contemporary Modern Dance Production I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Rehearsal and performance for dance concerts, outreach, and special events.

DNCE 275 Modern Dance Production II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Rehearsal and performance for dance concerts, outreach, and special events.

DNCE 276 Contemporary Modern Dance Production II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Rehearsal and production for dance concerts, outreach and special events.

DNCE 277 Classical Jazz Production I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Rehearsal and performance for dance concerts, outreach, and special events.

DNCE 278 Modern Jazz Production I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Rehearsal and performance for dance performance, outreach, and special events.

DNCE 279 Tap Production I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Rehearsal and performance for dance concerts, outreach and special events.

DNCE 280 Student Choreography Production I (1.50-2.00)
4.50-6.00 hours lab
Corequisite (Course required to be taken concurrently): DNCE 146
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Rehearsal and performance for dance concerts.

DNCE 281 Summer Dance Workshop (0.50-1.50)
1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Concentrated work in a variety of dance genres. Specific content is composed of various dance styles, techniques and rehearsal/performance opportunities.

DNCE 282 Classical Ballet Production II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Further explores the rehearsal and performance experience of a classical ballet. This second experience concentrates on smaller ensemble work and solos, resulting in multiple performances of the same work on a proscenium stage.

DNCE 283 Musical Theatre Scenes III (1.00)
3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: MUS 283
A continuation of Musical Theatre scenes II with emphasis on more advanced acting, singing and dance techniques.

DNCE 284 Musical Theatre Scenes IV (1.00)
3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: MUS 284
Exploring the rehearsing and performing of Musical Theatre acting, singing, and dancing at the advanced level.

DNCE 285 Student Choreography Production II (1.50-2.00)
4.50-6.00 hours lab
Corequisite (Course required to be taken concurrently): DNCE 146
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Further explores the rehearsal and performance of a student-based choreography focusing on smaller ensemble and solo work.

DNCE 287 Classical Jazz Production II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Further explores the rehearsal and performance experience of a classical jazz work in the style of 1940's-1960's Hollywood/concert jazz styles. This second experience focuses on small ensemble work, solo work and musicality.

DNCE 288 Modern Jazz Production II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Further explores the rehearsal and performance experience in current Jazz styles. This second experience focuses on small ensemble work, solos, and musicality.

DNCE 289 Tap Production II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Further explores the rehearsal and performance experience of tap choreography. Concentrates on small ensemble work and solos, resulting in multiple performances of the same work on a proscenium stage.

DNCE 290 World Dance Production II (0.50-1.50)
1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Further explores the rehearsal and performance experience of World Dance. This second experience focuses on small ensemble work and musicality.

DNCE 296 Independent Projects in Dance (0.50-1.50)
1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Fostering creative research and independent study projects in dance.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

DNCE 297 Experimental Projects in Dance (0.50-1.50)
1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Advanced dance projects including individual research, tutoring, and performance for college classes and community projects.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

DT-Drafting Technology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

DT 101 AutoCAD I (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Graded Only
AutoCAD I is an introduction to applied drafting theory, principles, and techniques for computer aided drafting using AutoCAD software. AutoCAD fundamentals include drawing, modifying, annotating (creating text, dimensioning, tolerancing, leaders, tables, and title blocks), design intent, layout, user interface customization, file management, and plotting/printing. Topics are covered in a sequential and progressive manner while incorporating industry best practices and standards.

DT 102 AutoCAD II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: DT 101
Transferability: UC/CSU
Grading: Graded Only
AutoCAD II furthers the student's understanding of drafting and design and builds upon the concepts introduced in AutoCAD I. Students will learn advanced design and modeling techniques to create more complex parts in 2D and 3D spaces not easily achieved with the basic commands. Drawing and design concepts will continue to be developed, using more advanced techniques and transition into 3D modeling of wireframes, surfaces, meshes and solids. Models will be assigned materials and rendered into photorealistic presentation. Lab exercises reinforce these learned concepts, while incorporating industry best practices and standards.

DT 103 SolidWorks I (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Graded Only
SolidWorks I is a computer-aided design (CAD) software used for parametric feature-based solid modeling, assembly construction, technical drawing creation, finite element analysis (FEA) and motion simulation. This class introduces students to the concept of parametric modeling, and how if differs from direct modeling while exploring and applying design intent and design elements. Lecture topics cover elements starting with basic core features of all parts, continuing with building simple assemblies of those parts, and culminating with creating both detail part and assembly production-ready drawings. Lab exercises reinforce these learned concepts, while incorporating industry best practices and standards.

DT 104 SolidWorks II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: DT 103
Transferability: CSU
Grading: Graded Only
SolidWorks II is a computer-aided design (CAD) software used for parametric feature-based solid modeling, assembly construction, technical drawing creation, finite element analysis (FEA) and motion simulation. This class furthers the student's understanding of parametric 3D design, and builds upon the concepts introduced in SolidWorks I. Students will learn advanced modeling techniques to create more complex parts incorporating organic shapes not easily achieved with the basic core features. Advanced assemblies will now be constructed using joint connections between components, constituting a basic mechanism. The student will perform kinematic (motion) studies using these mechanized assemblies to analyze the feasibility of the design. Large assembly management techniques will be taught. Drawing and design concepts will continue to be developed, using more advanced methods. Lab exercises reinforce these learned concepts, while incorporating industry best practices and standards.

DT 110 Technical Drafting I (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): DT 101
Transferability: CSU
Grading: Graded Only
Technical Drafting I studies the necessary fundamental concepts and theory of methodological drafting. Students will create accurate representations of designs for production and manufacturing while using industry standard CAD software. Topics include geometric constructions, orthographic projections, multi-view constructions, view alignment, dimension standards and notes, section views, auxiliary views, and isometric drawings. Lab exercises will reinforce these learned concepts, while incorporating industry best practices and standards.

DT 111 Conceptual Design through Production (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: DT 101 and DT 103, or DT 114; **Recommended Preparation:** MACH 117
Transferability: CSU
Grading: Graded Only
The Conceptual Design through Production class is an opportunity for a team of students to take an idea and make it a reality. Students will present a design to take from concept to production. When the design is approved, a written design proposal will be presented to the project manager for approval. Production drawings will be generated using industry standard software. Following print revisions and approval of the production drawings, the prototyping process will begin. After drawing revisions are made, the production package is completed, and the prototype is perfected, the part(s) will be 3D printed and/or machined using specified materials. The part will be inspected using GD&T and approved by the project manager. Final project will be presented and evaluated by peers and faculty.

DT 114 Creo Parametric I (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Graded Only
Creo Parametric is a computer-aided design (CAD) software for learning parametric feature-based solid modeling, assembly construction, technical drawing creation, finite element analysis (FEA) and motion simulation. Creo Parametric I introduces students to the concept of parametric modeling and how if differs from direct modeling. The class explores the importance of applying design intent through the use of design elements. Lecture topics cover basic core features of all parts, continuing with building simple assemblies of those parts, and culminating with creating both detail part and assembly production-ready drawings. Lab exercises reinforce these learned concepts, while incorporating industry best practices and standards.

DT 115 Creo Parametric II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: DT 114
Transferability: CSU
Grading: Graded Only
Creo Parametric is a computer-aided design (CAD) software for learning parametric feature-based solid modeling, assembly construction, technical drawing creation, and finite element analysis (FEA) and motion simulation. This class furthers the student's understanding of parametric 3D design and builds upon the concepts introduced in Creo Parametric I. Students will learn advanced modeling techniques to create more complex parts incorporating organic shapes not easily achieved with the basic core features. Advanced assemblies will now be constructed using joint connections between components, constituting a basic mechanism. The student will perform kinematic (motion) studies using these mechanized assemblies to analyze the feasibility of the design. Large assembly management techniques will be taught. Drawing and design concepts will continue to be developed, using more advanced methods. Lab exercises reinforce these learned concepts, while incorporating industry best practices and standards.

DT 226 Printed Circuit Board Design I (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: Student should have basic knowledge of MS Windows 10 Operating System (OS). This includes the ability to navigate files and directories, install software, locate and open software, and access the Internet through a web browser.
Transferability: CSU
Grading: Graded Only
Printed Circuit Board Design I provides process flow and software tool usage instruction for the creation of a Printed Circuit Board (PCB) based on the four stages of libraries, schematics, PCB layout and documentation. These four stages will be covered in the context of Design for Test (DFT) and Design for Manufacturing (DFM) to ensure that the design is manufacturable and testable. PCBs will be designed using a high-end circuit board software(s).
Notes:
Student will be required to have, or have access to, a laptop or PC capable of Window 10 (64 bit) with an Intel Core i5 processor or equivalent, 4GB RAM 10GB hard disk space, graphics card supporting directX 10 or better, and a monitor with at least 1680 X 1050 (wide screen) or 1600 X 1200 (4:3) screen resolution. A second screen is desirable but not required.

DT 227 Printed Circuit Board Design II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: DT 226
Transferability: CSU
Grading: Graded Only
Printed Circuit Board Design II builds upon the design process and tool knowledge gained in PCB Design I. Board fabrication and assembly practices will be discussed in detail to reinforce design best practices. Additional topics are honed to the needs of the electronics industry, such as high-speed, design density, rigid-flex and system design. The four PCB projects will develop skills from concept to manufacturing/assembly documentation.
Notes:
Student will be required to have, or have access to, a laptop or PC capable of Window 10 (64 bit) with an Intel Core i5 processor or equivalent, 4GB RAM 10GB hard disk space, graphics card supporting directX 10 or better, and a monitor with at least 1680 X 1050 (wide screen) or 1600 X 1200 (4:3) screen resolution. A second screen is desirable but not required.

ECON-Economics

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ECON 100 Basic Economics (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A study of the American economic system as it affects the decision-making of the individual as income earner, taxpayer, and voter. Emphasis is on application of the analyses of supply and demand, productivity, wages and the labor force, the money and banking system, the role of government, and domestic and international economic issues.

ECON 101 Principles of Economics (Macro) (3.00)
3.00 hours lecture
Prerequisite: Completion of elementary algebra or the equivalent, or eligibility or completion of PSYC/SOC 205, BUS 204, or any course between MATH 100 and 245 (excluding MATH 197) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID ECON 202
Descriptive analysis of the structure and functioning of the economy of the United States. Emphasizes national income, problems of inflation and unemployment, the role of government, specifically fiscal and monetary policies, money and banking, economic growth, and analysis of global issues.

ECON 102 Principles of Economics (Micro) (3.00)
3.00 hours lecture
Prerequisite: Completion of elementary algebra or the equivalent, or eligibility or completion of PSYC/SOC 205, BUS 204, or any course between MATH 100 and 245 (excluding MATH 197) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID ECON 201
Analyzes decision-making of individuals and groups as it relates to economic behavior. Examines market structures and resource markets under varying degrees of competition. Investigates causes of market failures such as public goods and externalities. Includes international trade and finance.

ECON 110 Comparative Economic Systems (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A study of various types of economic institutions and decision-making systems. Emphasis is given to the theories of capitalism, Marxian economics, and the various types of social market economies. The theories will be applied to the study of several countries, including the former Soviet Union, Japan, China, Mexico, and a Western European country, as they compare to the United States.

ECON 115 Economic History of the United States (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Development of the United States economy from the colonial period to the present. Emphasis will be on the evolution of such institutions as labor unions, business, banking, and government. Economic theory will be used to analyze historical problems.

ECON 120 Environmental Economics (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Graded Only
A study of major environmental issues from an economics perspective. Models will be developed and used to explore case studies on issues and policies. A strong emphasis will be placed on resource management problems. Course will provide a rationale for government involvement in the market-based economy.

ECON 125 Introduction to Labor Studies (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to Labor Studies. The focus is on how fundamental work is to human relations and the creation of communities. Moreover, the course examines how work, workers and organizations and institutions shape and define the employment relationship. Surveys how class, race, ethnicity, and gender impact work; the role of corporations; the role of unions; the global economy, and the future of work.

ECON 295 Directed Study in Economics (1.00-3.00)
1.00-3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Independent study for students who have demonstrated a proficiency in economics subjects and have the initiative to work independently on projects or research that does not fit into the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

EDUC-Education

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

EDUC 100 Foundations of Teaching as a Profession (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Graded Only
This course introduces teaching careers in primary and secondary education. Topics include the historical, sociological, and philosophical foundations of education; contemporary issues in public education; teaching pedagogy, curriculum, and instruction; teacher and student roles in the teaching/learning process; teacher qualifications and dispositions, California schools, and the credentialing system; and the contributions of culture, ethnicity, race, language, age, gender, sexual orientation, motivation, and learning styles. In addition to the lecture hours, 20 hours of assignments/observations at an approved K-12 site is required.
Notes:
This course is a prerequisite course for the Teacher Credentialing Program at CSUSM.

EDUC 150 Teaching, Learning and Technology (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Graded Only
This course introduces teaching careers in primary and secondary education. Topics include developing knowledge and skills using technology for teaching and learning within the broader context of science, technology, engineering, arts and math (STEAM) education; effective teaching strategies aligned with educational technology standards; use of technology to support assessment administration and conduct data analysis; use digital tools and learning techniques to promote digital literacy; and create learning environments that promote productive student learning, reflect diversity and are culturally responsive. In addition to the lecture hours, 15 hours of assignments and observations at an approved K-12 site are required.

EDUC 172 Teaching in a Diverse Society (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: CHDV 172
This course introduces teaching careers in early childhood, primary and secondary education and involves 15 hours of supervised fieldwork in community educational settings. Examines the development of social identities in diverse societies, including theoretical and practical implications affecting young children, families, programs, teaching, education, and schooling. Culturally relevant and linguistically appropriate anti-bias approaches supporting all people in becoming competent members of a diverse society. Social and emotional learning and conflict resolution is explored as a part of this process. Involves self-reflection of one's own understanding of educational principles in integrating bias to better inform teaching practices and/or program development. Major units include theoretical and practical articulation of culture and cultural pluralism, structural, programmatic, and curricular issues. This course examines issues of diversity in areas including, but not limited to race, ethnicity, gender, ability, family structure, sexuality, exceptionality, and religion.

EME-Emergency Medical Education

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

EME 105 EMT Prep (3.00)
3.00 hours lecture
Corequisite (Course required to be taken concurrently): EME 105L
Transferability: CSU
Grading: Grade/Pass/No Pass
This course is the mandatory prerequisite for EME 106/106L and is designed to prepare the student for the EMT course (EME 106/106L) by exposing them to basic anatomy, physiology, pathophysiology, medical terminology and basic assessment techniques to recognize and treat a patient experiencing a medical emergency.

EME 105L EMT Prep Lab (1.00)
3.00 hours lab
Corequisite (Course required to be taken concurrently): EME 105
Transferability: CSU
Grading: Grade/Pass/No Pass
This course is the corequisite to EME 105. The lab will focus on patient assessment, treatment skills and therapeutic communication.

EME 106 Emergency Medical Technician (Lecture) (6.00)
6.00 hours lecture
Prerequisite: must be age 18 by the first day of class.; Current American Heart Association CPR for BLS Provider or American Red Cross for the Health Care Provider.; EME 105 with a minimum grade of B; **Corequisite (Course required to be taken concurrently):** EME 106L
Transferability: CSU
Grading: Graded Only
The study of EMT theory and knowledge required for identification and treatment of pre-hospital emergencies. The course prepares the student for National Registry, California, and San Diego County EMT certification.

EME 106L Emergency Medical Technician Skills (Laboratory) (1.50)
4.50 hours lab
Prerequisite: Current American Heart Association CPR for BLS Provider or American Red Cross for the Health Care Provider Certification; **Corequisite (Course required to be taken concurrently):** EME 106; **Prerequisite:** must be age 18 on the first day of EME 106.; EME 105 with a minimum grade of B
Transferability: CSU
Grading: Pass/No Pass Only
Application of skills required for treatment of pre-hospital emergencies. This course prepares the student for National Registry, California and San Diego County EMT certification. Student is required to complete 24 hours supervised ambulance and emergency department observation.

EME 116 Emergency Medical Technician Refresher Course (1.50)

1.50 hours lecture
Prerequisite: Possess a valid current EMT-B, EMT-II or EMT-P certificate, or have possessed one within the last two years.
Transferability: CSU
Grading: Pass/No Pass Only
Review of basic EMT material and update of new material and techniques. Meets State of California requirements for EMT-B recertification continuing education units. An optional NREMT-B Recertification Exam available the day after the class ends.

EME 175 Paramedic Preparation (Lecture) (3.00)
3.00 hours lecture
Prerequisite: Current EMT with a minimum of 3 months full time pre-hospital experience. and **Corequisite (Course required to be taken concurrently):** EME 175L
Transferability: CSU
Grading: Grade/Pass/No Pass
This class is designed as a bridge to assist currently practicing prehosptial healthcare providers who are planning on applying to the paramedic program. Anatomy, physiology, medical math, pharmacology, and cardiology will be explored. The students will also be exposed to an overview of paramedic-level assessments, skills, and treatment.

EME 175L Paramedic Preparation Skills (Laboratory) (1.00)
3.00 hours lab
Prerequisite: Current EMT with a minimum of 3 months full time pre-hospital experience; **Corequisite (Course required to be taken concurrently):** EME 175
Transferability: CSU
Grading: Grade/Pass/No Pass
Overview of EMT skills combined with appropriate paramedic-level assessment and treatment relevant to the disease process studied.

EME 206 Introduction to Paramedic Training (Lecture) (5.50)
5.50 hours lecture
Corequisite (Course required to be taken concurrently): EME 206L
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to paramedic training which meets the requirements of the National Educational Standards for Paramedic Training.

EME 206L Introduction to Paramedic Training (Laboratory) (1.50)
4.50 hours lab
Corequisite (Course required to be taken concurrently): EME 206
Transferability: CSU
Grading: Pass/No Pass Only
Application of skills necessary for the Introduction to Paramedic Training which meets the requirements of the National Educational Standards for Paramedic Training.

EME 207 Paramedic Medical Training (Lecture) (10.00)
10.00 hours lecture
Corequisite (Course required to be taken concurrently): EME 207L; EME 211
Transferability: CSU
Grading: Grade/Pass/No Pass
The study of medical and cardiac diseases for paramedic training which meets the requirements of the National Educational Standards for Paramedic Training. Includes Advanced Cardiac Life Support training and certification.

EME 207L Paramedic Medical Skills (Laboratory) (2.00)
6.00 hours lab
Prerequisite: ; **Corequisite (Course required to be taken concurrently):** EME 207
Transferability: CSU
Grading: Pass/No Pass Only
Application of skills necessary for the medical portion of paramedic training which meets the requirements of the National Educational Standards for Paramedic Training. Includes Advanced Cardiac Life Support training and certification.

EME 208 Paramedic Trauma Training (Lecture) (4.50)
4.50 hours lecture
Corequisite (Course required to be taken concurrently): EME 208L; EME 211
Transferability: CSU
Grading: Grade/Pass/No Pass
The study of traumatic emergencies for paramedic training which meets the requirements of the National Educational Standards for Paramedic Training. Includes Pre-hospital Trauma Life Support training and certification.

EME 208L Trauma Skills (Laboratory) (1.00)
3.00 hours lab
Corequisite (Course required to be taken concurrently): EME 208
Transferability: CSU
Grading: Pass/No Pass Only
Application of skills necessary for trauma portion of paramedic training which meets the requirements of the National Educational Standards for Paramedic Training. Includes Pre-hospital Trauma Life Support training and certification.

EME 209 Paramedic Obstetrical and Pediatric Training (Lecture) (2.50)
2.50 hours lecture
Corequisite (Course required to be taken concurrently): EME 209L; EME 212
Transferability: CSU
Grading: Grade/Pass/No Pass
The study of Obstetrical and Pediatric emergencies for paramedic training which meets the requirements of the National Educational Standards for Paramedic Training. Includes Pediatric Education for Pre-hospital Professionals training and certification.

EME 209L Paramedic Obstetrical and Pediatric Skills (Laboratory) (1.00)
3.00 hours lab
Corequisite (Course required to be taken concurrently): EME 209; EME 212
Transferability: CSU
Grading: Pass/No Pass Only
Application of skills necessary for the Obstetrical and Pediatric portion for paramedic training which meets the requirements of the National Educational Standards for Paramedic Training. Includes Pediatric Education for Pre-hospital Professionals training and certification.

EME 210 Hospital Clinical Experience (3.50)
10.50 hours lab
Prerequisite: EME 209
Transferability: CSU
Grading: Grade/Pass/No Pass
Supervised clinical experience in acute care areas of hospitals where knowledge of advanced life support techniques is necessary.

EME 211 Clinical Integration I (1.00-1.50)
3.00-4.50 hours lab
Corequisite (Course required to be taken concurrently): EME 206 and EME 206L and EME 207 and EME 207L
Transferability: CSU
Grading: Pass/No Pass Only
Application of assessment and BLS skills necessary to be successful in paramedic training.

EME 212 Clinical Integration II (1.00-2.00)
3.00-6.00 hours lab
Corequisite (Course required to be taken concurrently): EME 208; EME 208L; EME 209; EME 209L
Transferability: CSU
Grading: Pass/No Pass Only
Application of assessment and BLS skills necessary to be successful in paramedic training.

EME 215 Field Internship (10.00)
30.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): EME 210 with a minimum grade of B
Transferability: CSU
Grading: Grade/Pass/No Pass
Assignment to a response vehicle with a field preceptor. Includes direct patient care responsibilities in providing advanced life support.

EME 220 Paramedic Refresher A (4.00)
2.00 hours lecture - 6.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides students who were unsuccessful in 207/207L, EME 210 and/or EME 215 or individuals who are challenging the paramedic program an opportunity to refresh, strengthen, and maintain their clinical abilities and knowledge base.

EME 221 Paramedic Refresher B (4.50)
2.00 hours lecture - 7.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides students who were unsuccessful in 208/208L, EME 209/209L, EME 210 and/or EME 215 or who are challenging the paramedic program an opportunity to refresh, strengthen, and maintain their clinical abilities and knowledge base.

EME 224 Clinical Refresher (1.00)
3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides students who were unsuccessful in EME 215 or who are challenging the paramedic program an opportunity to refresh, strengthen, and maintain their clinical abilities and knowledge base.

EME 295 Directed Study in Emergency Medical Education (1.00-3.00)
3.00-9.00 hours lab
Prerequisite: Approval of project or research by department chairperson/director
Transferability: CSU
Grading: Grade/Pass/No Pass
Independent study for students who have demonstrated skills and/or proficiencies in Emergency Medical Education subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

ENG-English

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ENG 49 Reading and Writing for College Composition (2.00)
2.00 hours lecture
Corequisite (Course required to be taken concurrently): ENGL C1000
Note: May be taken up to 3 times for up to 6.00 total units
Grading: Pass/No Pass Only
This course offers support for students enrolled in English 100. Instruction will cover academic reading, reasoning, and writing expected for transfer and associate-degree courses. Students will read a variety of texts, review rules of grammar and essay form, and practice essay-writing.
Notes:
Non-degree Applicable

ENG 100* English Composition
See ENGL C1000 Academic Reading and Writing

ENG 100E* English Composition Enhanced
See ENGL C1000E Academic Reading and Writing

ENG 135 Introduction to Creative Writing (4.00)
4.00 hours lecture
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Provides practice, instruction, and analytical research in writing fiction and poetry. Students submit both creative and analytical writing which will be presented for workshop discussion and critique. Lectures present a variety of prose and verse forms.

ENG 136 Intermediate Creative Writing (4.00)
4.00 hours lecture
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Provides practice, instruction, and analytical research in writing fiction and poetry. Students submit both creative and analytical writing which will be presented for workshop discussion and critique. Lectures present a variety of prose and verse forms.

ENG 137 The Literary Magazine: History and Production (4.00)
2.00 hours lecture - 6.00 hours lab
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: CSU
Grading: Grade/Pass/No Pass
Historical examination of the genre of the literary magazine from the 18th century to the present, with an emphasis on the late 20th century. Also, after selecting and editing material for Palomar College's literary journal, Bravura, students will structure, format, produce, and distribute the magazine.

ENG 150 Introduction to Linguistics (3.00)
3.00 hours lecture
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to the principles and practices of modern language study. Examines the origins and development of language, its social uses and implications, and its structure.

ENG 202* Critical Thinking and Composition
See ENGL C1001 Critical Thinking and Writing

ENG 203 Critical Thinking and Composition Through Literature (4.00)
4.00 hours lecture
Prerequisite: ENGL C1000, or ENGL C1000E, or ESL 110
Transferability: UC/CSU
Grading: Graded Only
CID-C-ID ENGL 110
Practice in writing essays about literature with emphasis on critical thinking, reading, and writing skills; principles of inductive and deductive reasoning; the relationship of language to logic; analysis, criticism, and advocation of ideas; methods of research; advanced elements of style and organization.

ENG 205 Introduction to Literature (3.00)
3.00 hours lecture
Prerequisite: ENGL C1000, or ENGL C1000E, or ESL 110
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID ENGL 120
An introduction to fiction, poetry, drama, and other genres in literary form. Students will read and discuss assigned selections from various literary genres and examine themes, language, forms, techniques, and other strategies that influence the production and reception of literature.

ENG 210 Survey of British Literature I (3.00)
3.00 hours lecture
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A study of the significant texts in British literature from the Middle Ages to the Eighteenth Century. Considers a variety of authors, literary genres and trends, as well as the historical and cultural contexts of the literary texts.

ENG 211 Survey of British Literature II (3.00)
3.00 hours lecture
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A study of significant texts in British literature from the Romantic period to the present. Considers a variety of authors, literary genres and trends, as well as the historical and cultural contexts of the literary texts.

ENG 220 Survey of World Literature I (3.00)
3.00 hours lecture
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID ENGL 140
A survey of the major literature of Africa, the Americas, Asia and Europe from ancient times to about 1600. A comparative study of literary themes and expression will be pursued.

ENG 221 Survey of World Literature II (3.00)
3.00 hours lecture
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID ENGL 145
A survey of the major literatures of Europe, Asia, the Americas, Africa, and Australia from about 1600 to the present. A comparative study of literary themes and influences will be pursued.

ENG 225 Literature of the United States I (3.00)
3.00 hours lecture
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID ENGL 130
A study of significant texts written in the territories that would become the United States, from the pre-colonial period to the Civil War; considers a variety of literary genres and trends, with a focus on such issues as the interaction of texts and history, the expansion and politics of the literary canon, and the influence of the cultural contexts in which the literature of the United States is written and interpreted.

ENG 226 Literature of the United States II (3.00)
3.00 hours lecture
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID ENGL 135
Significant texts written in the United States from the Civil War to the present; considers a variety of literary genres and trends, with a focus on such issues as the interaction of texts and history, the expansion and politics of the literary canon, and the influence of the cultural contexts in which the literature of the United States is written and interpreted.

ENG 230 Introduction to the American Novel (3.00)
3.00 hours lecture
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A study of the development of the American novel through reading such writers as Nathaniel Hawthorne, Louisa May Alcott, Herman Melville, Mark Twain, Henry James, Elizabeth Stewart Phelps, Kate Chopin, William Faulkner, Ernest Hemingway, Nella Larsen, Bernard Malamud, Zora Neale Hurston, Willa Cather, Ralph Ellison, Thomas Pynchon, Toni Morrison, Maxine Hong Kingston, Louise Erdrich, and James Baldwin.

ENG 250 Introduction to Shakespeare (3.00)
3.00 hours lecture
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to the life, times, background, poems, and plays of William Shakespeare.

ENG 255 Literature and Ideas (3.00)
3.00 hours lecture
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to selected major philosophical ideas, questions, and attitudes in significant literature of the world, from the ancient world to the present. The course will trace treatment of a thematic idea through literature of particular times and cultures. Recommended for English and Philosophy majors, and for those interested in broadening their background in the humanities.

ENG 260 Literature through Film (3.00)
3.00 hours lecture
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Analysis of the expectations and conventions used in literature -- novels, short stories, dramas, poetry -- and how those expectations and conventions are affected when they are translated into film. Critical analysis of the various works and comparison/contrast of the different interpretations of these ideas will be stressed.

ENG 270 Popular Literature (3.00)
3.00 hours lecture
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to one genre of popular literature such as science fiction, fantasy, detective fiction, war fiction, humor, or western literature using short stories and novels, and how these works are affected by the expectations and conventions of the genre in which the author is writing.

ENG 280 Women and Literature (3.00)
3.00 hours lecture
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Examines from a multicultural perspective women's relationship to literature. Examines what it means to be a "woman" writer, exploring historical and cultural conditions that have shaped women's relationship to literature. Explores gender stereotypes in literature by and about women and analyzes the ways in which women writers engage with, resist, and/or subvert dominant ideas about gender in literature.

ENG 290 Comic Books as Literature (3.00)
3.00 hours lecture
Prerequisite: Eligibility for ENGL C1000 or ENGL C1000E or ESL 110 as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An analysis of the comic book in terms of its unique poetics (the complicated interplay of word and image); the themes that are suggested in various works; the history and development of the form and its subgenres; and the expectations of comic book readers. Examines the influence of history, culture, and economics on comic book artists and writers. Explores definitions of "literature," how these definitions apply to comic books, and the tensions that arise from such applications.

ENGL-English

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ENGL C1000 Academic Reading and Writing (4.00)
4.00 hours lecture
Prerequisite: Placement as determined by the college's multiple measures assessment process.
Transferability: UC/CSU
Grading: Graded Only
In this course, students receive instruction in academic reading and writing, including writing processes, effective use of language, analytical thinking, and the foundations of academic research. Practice in expository and argumentative writing based on analytical reading and critical thinking is emphasized, as are topics such as methods of invention, organization and development, and the elements of style. Students who receive credit for ENGL C1000 may not also receive credit for ENGL C1000E.
Notes:
Formerly ENG 100

ENGL C1000E Academic Reading and Writing (4.00)
3.50 hours lecture - 1.50 hours lab
Prerequisite: Placement as determined by the college's multiple measures assessment process.
Transferability: UC/CSU
Grading: Graded Only
In this course, students receive instruction in academic reading and writing, including writing processes, effective use of language, analytical thinking, and the foundations of academic research. This course includes embedded support. Practice in expository and argumentative writing based on analytical reading and critical thinking is emphasized, as are topics such as methods of invention, organization and development, and the elements of style. This enhanced version of ENGL C1000 offers extra instruction, practice, and support to help students develop college-level composition skills. Students who receive credit for ENGL C1000E may not also receive credit for ENGL C1000.
Notes:
Formerly ENG 100 + 49 and ENG 100E

ENGL C1001 Critical Thinking and Writing (4.00)
4.00 hours lecture
Prerequisite: College-level composition (ENGL C1000/ ENGL C1000H/ ENGL C1000E/C-ID ENGL 100) or equivalent, or ESL 110
Transferability: UC/CSU
Grading: Graded Only
CID-C-ID ENGL 105
In this course, students receive instruction in critical thinking for purposes of constructing, evaluating, and composing arguments in a variety of rhetorical forms, using primarily non-fiction texts, refining writing skills and research strategies developed in ENGL C1000 College Reading and Writing (C-ID ENGL 100) or similar first-year college writing course. The course emphasizes an awareness of language and its implications through rhetorical and semiotic analysis of language in context, as well as an awareness of principles of classical argument in light of the traditions of rational thought.
Notes:
Formerly ENG 202

ENGR-Engineering

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ENGR 100 Introduction to Engineering (1.00)
1.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An overview of the engineering profession including not only the different engineering fields but also the specialized demands and rewards of each. It will afford the opportunity for community building among the students, who usually are otherwise isolated in the community college milieu. Group projects in the course will encourage socialization and human relations training in what is often perceived as a dry and dull profession. Academic success strategies will be explained and practiced; ethical concepts will be examined through case histories and practical applications.

ENGR 126 Introduction to Electrical and Computer Engineering (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: MATH 140, or MATH 140E
Transferability: CSU
Grading: Grade/Pass/No Pass
Introductory concepts covering a broad range of topics in Electrical and Computer Engineering presented in an integrated approach at a hands-on level. Students work in small teams to analyze, build, and test a small programmable robot for competition at the end of the semester. Provides basic understanding and skills for students to later build their theoretical understanding in more advanced physics and engineering courses.

ENGR 197 Engineering Topics (0.50-5.00)
0.50-5.00 hours lecture - 1.50-15.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Engineering. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

ENGR 210 Electrical Network Analysis (3.00)
3.00 hours lecture
Prerequisite: (Completion of, or concurrent enrollment in): ENGR 210L and PHYS 231
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Circuit analysis by reduction methods, source transformations, loop and nodal analysis, OPAMP model for networks, transient analysis, alternating current circuits, impedance, power and phasor diagrams.

ENGR 210L Electrical Network Analysis Lab (1.00)
3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): ENGR 210
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Laboratory exercises of circuit analysis by reduction methods, source transformations, loop and nodal analysis, OPAMP Model for networks, transient analysis, alternating current circuits, impedance, power and phasor diagrams.

ENGR 235 Engineering Mechanics - Statics (3.00)
3.00 hours lecture
Prerequisite: MATH 140, or MATH 140E; PHYS 230
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Force systems and equilibrium conditions. Engineering problems covering structures, machines, distributed forces, and friction. Graphical and algebraic solutions, and vectorial analysis.

ENGR 236 Engineering Mechanics - Dynamics (3.00)
3.00 hours lecture
Prerequisite: ENGR 235
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Fundamental principles of bodies in motion; kinetics and kinematics of particles; system of particles; central force; work and energy; linear and angular momentum; moments and products of inertia; vibrations and time response; engineering applications.

ENGR 245 Properties of Materials (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: CHEM 110; CHEM 110L
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Physical properties of engineering materials. Atomic, molecular, and crystal lattice characteristics. Relations between these and mechanical, thermal, electrical, corrosion, and radiation properties. Metallic, ceramic, polymer, and agglomerate materials. Selection, treatment, and use of materials.

ENGR 295 Directed Study in Engineering (1.00-3.00)
3.00-9.00 hours lab
Prerequisite: Approval of project or research by department chairperson
Transferability: CSU
Grading: Grade/Pass/No Pass
Designed for the student who has demonstrated a proficiency in engineering subjects and the initiative to work independently on a particular sustained project which does not fit into the context of regularly scheduled classes.

ES-Earth Sciences

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ES 115 Natural Disasters and Environmental Hazards (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: GEOG 115
Examination and analysis of natural disasters and environmental hazards including earthquakes, tsunamis, volcanic activity, hurricanes, climate change, flooding, mass movement, wildfire, and impacts with space objects.

ESL-English as a Second Language

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ESL 9 English Pronunciation I (3.00)
3.00 hours lecture
Grading: Grade/Pass/No Pass
Development of students' ability to identify and replicate English intonation, stress patterns, and certain common word combinations as they are pronounced in informal speech.
Notes:
Non-degree Applicable

ESL 10 English Pronunciation II (3.00)
3.00 hours lecture
Grading: Grade/Pass/No Pass
Identifies spoken American English intonation, stress and rhythm patterns. Provides practice in producing English sounds and patterns. Emphasis is on clear speech, self-correction and listening to varied pronunciations of English.
Notes:
Non-degree Applicable

ESL 12 ESL Grammar Skills I (3.00)
3.00 hours lecture
Grading: Grade/Pass/No Pass
Instruction in editing of written material by applying conventions of standard written English.
Notes:
Non-degree Applicable

ESL 13 ESL Grammar Skills II (3.00)
3.00 hours lecture
Grading: Grade/Pass/No Pass
Instruction in editing of written material by applying conventions of standard written English.
Notes:
Non-degree Applicable

ESL 14 ESL Grammar Skills III (3.00)
3.00 hours lecture
Grading: Grade/Pass/No Pass
Instruction in editing of written material by applying conventions of standard written English.
Notes:
Non-degree Applicable

ESL 20 Academic Speaking and Listening (3.00)
3.00 hours lecture
Grading: Grade/Pass/No Pass
Develops speaking and listening skills necessary for non-native speakers of English to be successful in the college environment. This class emphasizes linguistic and interpersonal skills in order for participation in discussions and performance of tasks in personal, academic, and formal or informal situations. Vocabulary, conversation strategies, presentation techniques, and strategies for notetaking and listening for main ideas and details are introduced within interesting and meaningful contexts.
Notes:
Non-degree Applicable

ESL 31 Writing Support for the Sciences for Non-Native Speakers (1.00)
1.00 hours lecture
Grading: Grade/Pass/No Pass
Provides instruction and practice with written rhetorical models prevalent across the sciences curricula (Life Sciences, Earth Sciences, Behavioral Sciences, Social Sciences, etc.). Focus on instruction and practice with essay types and other writing that enrolled students need for their current science courses.

ESL 45 Reading and Writing Essentials I (5.00)
5.00 hours lecture
Grading: Grade/Pass/No Pass
A beginning course in reading and writing academic English for students whose first language is not English. Offers instruction in reading skills, basic grammar usage, paragraph organization and development, and appropriate basic vocabulary for academic reading and writing.
Notes:
Non-degee Applicable

ESL 93 Career Exploration and Job Skills (3.00-4.00)
3.00-4.00 hours lecture
Grading: Grade/Pass/No Pass
This course prepares English language learners for the education or training they need to reach their career goals. Students explore career options, navigate college websites, send professional emails, and use their research to create a detailed career pathway. Students develop the English reading, writing, speaking, listening, grammar, and general technology skills used in the workplace.

ESL 94 Working in the U.S. (3.00-4.00)
3.00-4.00 hours lecture
Grading: Grade/Pass/No Pass
This course prepares English language learners to apply for jobs and succeed in the U.S. workplace. Students navigate online job postings and develop job application skills such as making a resume, writing a cover letter, and doing interviews. The course covers laws that protect workers and cultural norms in the U.S. workplace. Throughout the class, students will demonstrate 21st century workplace skills, including communication, collaboration, problem-solving, and social/diversity awareness.

ESL 95 English as a Second Language Support (1.00-4.00)
1.00-4.00 hours lecture
Grading: Pass/No Pass Only
English as a Second Language contextualized support instruction to prepare intermediate to advanced ESL students for success in a credit or noncredit certificate or degree program. Course instruction focuses on reading, writing, listening and speaking skills necessary to succeed in a specified career or education program.

ESL 105 Accelerated Written Communication I (6.00)
6.00 hours lecture
Prerequisite: ESL 45; Eligibility determined through the English as a Second Language placement process.
Transferability: UC/CSU
Grading: Graded Only
An accelerated course in reading and writing combining ESL 55 and 101. Designed for students whose first language is not English. Emphasizes analytical and critical thinking skills through reading and writing as a process. Reviews sentence-level grammar and its application to academic writing of summaries and development of paragraph organization and multiple-paragraph essays.
Notes:
(UC Only) Any ESL courses combined: maximum credit, 8 semester/ 12 quarter units

ESL 106 Multicultural Humanities (6.00)
6.00 hours lecture
Prerequisite: ESL 105, or eligibility determined through the English as a Second Language placement process
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A humanities course designed for advanced multilingual learners of English that examines multi-cultural works and emphasizes skills in critical thinking and analysis. This course develops students' abilities to critically analyze and respond both objectively and subjectively to published materials from culturally diverse traditions. It features practice in written communication, research strategies, synthesis of sources, and critical reading. Readings provide exposure to a range of genres and cultures to develop a broader cultural understanding of the world.
Notes:
(UC Only) Any ESL courses combined: maximum credit, 8 semester/ 12 quarter units

ESL 110 College Composition for Non-Native Speakers (4.00)
4.00 hours lecture
Prerequisite: ESL 106, or eligibility determined through the English as a Second Language placement process
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to college-level written English for non-native speakers of English. This course emphasizes critical reading, critical thinking, expository and argumentative writing, and library research techniques. This course includes a close examination of a variety of texts from culturally diverse traditions. Instruction leverages students' native languages and cultures to inform their college-level reading and writing.
Notes:
(UC Only) Any ESL courses combined: maximum credit, 8 semester/ 12 quarter units

ESL 131 Academic Reading for Non-Native Speakers (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course is designed to improve the reading skills of non-native English speakers. This course's emphasis is on increased comprehension of college-level fiction and non-fiction, making inferences based on texts, synthesizing material from several texts, evaluating written arguments, differentiating facts from opinions, and demonstrating study skills related to reading that would help a student manage a college reading load.

FASH-Fashion

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

FASH 70 Fashion Knits (0.50)
1.50 hours lab
Grading: Grade/Pass/No Pass
This workshop offers the students the knowledge and process of designing, draping and flat pattern making as it applies to knit fabrics. They will also learn the characteristics of knit fabrication and it's appropriate applications. Sewing and construction techniques will focus on knit fabrics.

FASH 100 Fashion Industry (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
The Fashion Industry course introduces students to the dynamic world of fashion merchandising and design. Topics include fashion icons, the design process, creative development, textiles, visual merchandising, industry terminology, career building and the impact of globalization.

FASH 105 Fashion Analysis and Clothing Selection (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Examines fashion for professional and personal need as it relates to culture, wardrobe planning, and coordination.

FASH 110 Textiles (3.00)
2.50 hours lecture - 1.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Fibers, yarn, fabric construction, and finishes as related to selection, use, and care of textiles.

FASH 115 Visual Merchandising I (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Designed to acquaint the student with basic techniques of effective retail store presentations including window and interior displays. Course activities include constructing and installing visual displays using the principles of design and designing store environments, utilizing fixtures, lighting, and other display materials.

FASH 116 Visual Merchandising II (3.00)
3.00 hours lecture
Prerequisite: FASH 115
Transferability: CSU
Grading: Grade/Pass/No Pass
Advanced training in visual presentation. Students benefit by practical application and collaboration with industry professionals. Course activities include a leadership role in construction and installing of interior and exterior window displays, store layout, special event coordination, and store planning.

FASH 120 Fashion Buying/Management II (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Principles of fashion buying utilizing practical applications and case studies. Topics covered include merchandise planning and selection, resource relations, legal trade regulations, pricing, and merchandise management and control.

FASH 125 Retailing/Promotion (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: BUS 145
Principles and techniques of retailing, promotion, and advertising pertinent to retail policies and procedures. Includes psychological aspect of retailing. Working foundation for those looking forward to employment in this area.

FASH 126 Fashion Show Presentation (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Applied study and practical application of fashion show and special event production and promotional skills. Strategies and techniques studied include organizing, advertising, staging, timing, and coordinating models and their clothing and accessories. Produce the Fashion Merchandising/Fashion Design program's annual fashion show.

FASH 130 History of Fashion/Costume (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Styles of dress from the Paleolithic period to the present as depicted in art forms and other media. Focuses on Western European costume.

FASH 135 Introductory Sewing for Apparel (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Produce basic garments in a sample-room setting using introductory sewing techniques.

FASH 136 Advanced Sewing for Apparel (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: FASH 135
Transferability: CSU
Grading: Grade/Pass/No Pass
Advanced sewing for apparel emphasizing machine technique and workroom procedures. Preparation will be given for employment in sample making for apparel manufacturing.

FASH 138 Speed Tailoring Jacket Techniques (1.00)
3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Speed Tailoring will focus on advanced construction techniques and materials used to change a flat piece of fabric into a three-dimensional garment. Industry technique application of interfacings, using garment appropriate fabrics, advanced construction skills and professional pressing equipment will be used to create a speed tailored garment equivalent to high-end ready-to-wear.

FASH 139 Pattern Making/Fashion Design (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Pattern making through the flat pattern design method. Attention is given to design analysis and interpretation of design; application of design method in the development, presentation, and construction of original garments.

FASH 141 Advanced Pattern Making/Draping (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: FASH 139
Transferability: CSU
Grading: Grade/Pass/No Pass
Advanced design skills for the fashion industry. Examination of one method of pattern development: draping. Creation of patterns to drape and fit on a dressmaker's form.

FASH 145 Fashion Illustration and Presentation (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Fundamentals in drawing of fashion figures and in illustration of fashion garments. Development of individual skills and style in graphic presentation.

FASH 148 Digital Design for Fashion (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Design and illustrate fashion sketches, storyboards, and patterns using Adobe Illustrator and Adobe Photoshop. Development of individual skills and style in graphic presentations.

FASH 155 World of Fashion (1.50-4.50)
1.00-3.00 hours lecture - 1.50-4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Extended field studies in textiles, design, manufacturing, forecasting, and retail practices as they apply to the national and international fashion industry. Emphasis upon field observation and examination of the fashion trends as they interrelate with the social, political, psychological, economic, and historical influences to create the fashion ambience. Geographical locations may vary.

FASH 156 Fashion Trade Show (1.50)
1.00 hours lecture - 1.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
This course is a field study of the fashion industry. Emphasis is placed on field trip outings to a variety of fashion industry markets and trade shows. This course is designed for students interested in fashion and business and those who wish to explore the resources available for designers, retailers buyers, manufacturers and social media influencers.

FASH 175 Analysis, Evaluation, and Comparison of Ready-to-Wear (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Analysis of the quality of materials, design, and construction in ready-to-wear garments and accessories; comparison of processes involved in manufacturing; concepts of sizing; principles of fit; and aids in buying and selling.

FASH 180 Design Studio I: Fundamentals (0.50)
1.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Introductory apparel sewing techniques in a lab setting. A continuation of Intro Sewing and 2D Pattern-making courses, this course introduces fashion design students to the basic principles and techniques of sewing, cutting, construction, and finishing and further develops students' understanding of fundamental apparel construction procedures and their application to current trends.

FASH 181 Design Studio II: Intermediate (0.50)
1.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
This course introduces students to the construction techniques involved in the development of intimate apparel products. Students create a prototype from a sloper, using professional sewing methods and application techniques. Emphasis on proportion, balance and shape as related to design aesthetics broadens students' understanding of actualizing and realizing three-dimensional design prototypes through manipulating soft fabrications.

FASH 182 Design Studio III: Advanced (0.50)
1.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Creative interpretation and artistic development of contemporary apparel designs. Emphasis on proportion, balance, and shape. The students' understanding of actualizing and realizing three-dimensional design prototypes through manipulating soft fabrications. Students learn how to hand bead as well as apply rocailles, sequins, pearls, and faux gems on different types of fabrics.

FASH 183 Design Studio IV: Professional (0.50)
1.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Enhancement of sewing skills, patternmaking and or computer application, by supervised practice and active participatory experience in individual study. Content to be determined by the need of the student in agreement and under observation and direction of the instructor.

FASH 191 Fashion CAD (0.50)
1.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
An introduction to computer aided pattern making for fashion using CAD technology. Hands on experience with CAD technology to include the following operations: preparing and editing patterns, spec and record garment measurements, draw specification flats manually and digitally using Adobe Illustrator and Optitex computer pattern-making.

FASH 195 Field Studies in Fashion (2.00)
1.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Fashion industry on site: process of designing, manufacturing, marketing, and merchandising of fashion apparel and related accessories.

FASH 197A Fashion Merchandising Workshop (0.50-3.00)
0.50-3.00 hours lecture - 1.50-9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Covers areas of the fashion merchandising industry which are rapidly changing or require current short term specific training.

FASH 197B Fashion Manufacturing Workshop (0.50-3.00)
0.50-3.00 hours lecture - 1.50-9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Covers areas of the fashion manufacturing industry which are rapidly changing or require current short term specific training.

FASH 197C Fashion Design Workshop (0.50-3.00)
0.50-3.00 hours lecture - 1.50-9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Covers areas of the fashion design industry which are rapidly changing or require current short term specific training.

FASH 295 Directed Study in Fashion (1.00-3.00)
3.00-9.00 hours lab
Prerequisite: Approval of project or research by department chairperson/director
Transferability: CSU
Grading: Grade/Pass/No Pass
Independent study for students who have demonstrated skills and/ or proficiencies in Fashion subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

FIRE-Fire Technology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

FIRE 51 Fire Academy Preparation (3.00)
2.00 hours lecture - 3.00 hours lab
Grading: Grade/Pass/No Pass
Prepares individuals for the demanding requirements of the Fire Academy. Also prepares students for the Physical Ability test required to pass the North County Regional Fire Test. The test is broken down into components so that the student can more skillfully pass the exam. There will be time spent on application preparation and interview skills.

FIRE 98 Firefighter Skill Maintenance and Update (1.50)
4.50 hours lab
Prerequisite: Must have completed an accredited Firefighter 1 Academy or Must have completed an approved internal Fire Department training program that follow State Fire Training 2013 standards for Firefighter 1
Grading: Pass/No Pass Only
This course is designed for currently employed and volunteer Firefighters and covers fire service topics in a classroom and manipulative setting that includes required skills maintenance and updated tactical techniques. All subjects relate to the duties and responsibilities of the fire services in order to maintain a state of readiness. Course may be repeated to cover legally mandated training and new techniques.

FIRE 100 Fire Protection Organization (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides an introduction to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics.

FIRE 101 Firefighter Safety (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Encompasses the many dangers associated with the job of a firefighter. Introduces the National Fallen Firefighters Foundation, Firefighter Life Safety Initiatives, and the Everyone Goes Home Program.

FIRE 115 Hazardous Materials I (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
A review of basic chemistry; storage, handling, laws, standards, and fire fighting practices pertaining to hazardous materials.

FIRE 118 Fire Prevention Technology (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation and fire safety education. Provides skills necessary for California Fire Service Training and Education system.

FIRE 120 Building Construction for Fire Protection (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
CID-FIRE 130 X
The study of the components of building construction that relate to fire/life safety. The development and evolution of building and fire codes will be studied in relationship to past fires/collapses in residential, commercial, and industrial occupancies.

FIRE 130 Fire Protection Equipment and Systems (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides information relating to the features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers.

FIRE 131 Introduction to Emergency Management (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course introduces students to the emergency management profession. Topics include the history of emergency management, the identification and assessment of hazards, risk, and vulnerability, and the four phases of emergency management (mitigation, preparedness, response, and recovery). Special emphasis is given to the communication function, international disaster management, and the recent influence of the terrorism hazard. The course concludes with a discussion on the future of emergency management.

FIRE 132 Disaster Response And Recovery (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course will present the principles that promote effective disaster response and recovery operations after disasters. The course will examine the nature of disasters as well as the roles and responsibilities of various actors involved in emergency management. The importance of addressing the needs of the affected population will be discussed, and will include recommendations to fulfill a variety of important functions (e.g. implementing the emergency operations plan, warning, evacuation, search and rescue, emergency medical care/mass casualties, mass fatalities, sheltering and care, donations management, damage assessment, the disaster declaration process, media relations/ public information, individual and public assistance). The role of technology and the importance of communications and coordination will be emphasized along with the incident command system, emergency operations centers, the National Incident Management System and the National Response Plan.

FIRE 133 Disaster Mitigation (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course explores the disaster mitigation and preparedness frameworks involving private and governmental agencies, the rules and regulations governing mitigation and preparedness, the risk assessment process, and strategies, tools and techniques that are available to prevent or lessen the impact of hazards. Knowledge and skills required to develop programs to reduce losses from future emergencies caused by natural and man-made disasters.

FIRE 142 Fire Ethics (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
CID-FIRE 251 X
Fire ethics will be studied from the perspective of a professional firefighter. Students will examine and explore ethical and moral dilemmas that will confront Firefighters/EMS personnel throughout their career.

FIRE 151 Fire Fighter I Academy (20.00)
10.00 hours lecture - 30.00 hours lab
Prerequisite: EME 106; certification as an EMT-1; admission to the Fire Fighter I Academy program
Transferability: CSU
Grading: Grade/Pass/No Pass
A 656 hour fire fighter academy course which will meet the requirements mandated by the California Office of State Fire Marshal for Certified Fire Fighter I training. Covers fire ground procedures, tactics, strategy, safety methods, fire dynamics, equipment usage and deployment, and subject material pertaining to the role of fire fighters within the fire service.

FIRE 160 Wildland Fire Control I (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides employed firefighters or fire service majors with a fundamental knowledge of the factors affecting wildland fire prevention, fire behavior, and control techniques.

FIRE 165 Fundamentals of Fire Protection Chemistry (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides the student with fundamental information and knowledge of the physical and chemical characteristics of matter, fire, hazardous materials, and basic extinguishment theory.

FIRE 171A Company Officer 2A/Human Resource Management for Company Officers (2.50)
2.50 hours lecture
Prerequisite: Meet the educational requirements for Fire Fighter II or experience as a career or volunteer firefighter.
Transferability: CSU
Grading: Grade/Pass/No Pass
This course provides information on the use of human resources to accomplish assignments, evaluating member performance, supervising personnel, integrating health and safety plans, policies, and procedures into daily activities as well as the emergency scene.

FIRE 171B Company Officer 2B/General Administrative Functions for Company Officers (1.00)
1.00 hours lecture
Prerequisite: Meet the educational requirements for Fire Fighter II or equivalent.
Transferability: CSU
Grading: Graded Only
This course provides information on general administrative functions and the implementation of department policies and procedures and addresses conveying the fire department's role, image, and mission to the public.

FIRE 171C Company Officer 2C / Fire Inspections and Investigations for Company Officers (2.50)
2.50 hours lecture
Prerequisite: Completion of a CA Regionally accredited Fire Academy or a signed statement by the agency's Fire Chief or designee stating the sponsored student has completed all SFT training requirements and skills sheets for Firefighter 1 or equivalent.
Transferability: CSU
Grading: Grade/Pass/No Pass
This course provides information on conducting inspections, identifying hazards and addressing violations, performing a fire investigation to determine preliminary cause and securing the incident scene and preserving evidence. Applies to California State Fire Marshal Company Officer Certification.

FIRE 171D Company Officer 2D/All Risk (2.50)
2.50 hours lecture
Prerequisite: Completion of the following: ICS-200.B: Incident Command System for Single Resources and Initial Action Incidents Hazardous Material Incident Commander (as offered by the California Specialized Training Institute)
Transferability: CSU
Grading: Grade/Pass/No Pass
This course provides information on conducting incident size-up, developing and implementing an initial plan of action involving single and multi-unit operations for various types of emergency incidents to mitigate the situation following safety procedures, conducting pre-incident planning, and develop and conduct a post-incident analysis.

FIRE 171E Company Officer 2E/Wildland Incident Operations (2.50)
2.50 hours lecture
Prerequisite: S-290 Intermediate Fire Behavior (Classroom Delivery Only)
Transferability: CSU
Grading: Grade/Pass/No Pass
CID-FIRE 240 X
This course provides information on evaluating and reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources to complete all operations to suppress a wildland fire, establish an incident command post, creating an incident action plan, and completing incident records and reports. Applies to California State Fire Marshal Company Officer Certification - additional materials fee required.

FIRE 171F Hazardous Materials Incident Commander (1.00)
1.00 hours lecture
Prerequisite: Student must have successfully completed ICS - 100 training (in-person or online). Class is offered by the California State Fire Marshal, FEMA, or CSTI. and Student must have successfully completed a Hazardous Materials First Responder - Operations course offered either by the California State Fire Marshal or the California Specialized Training Institute.
Transferability: CSU
Grading: Grade/Pass/No Pass
This course provides the tools required to assume control of an emergency response to a hazardous materials incident. It focuses on how to assess hazards, manage risk, comply with legal requirements and implement protective actions. This program meets OSHA and NFPA recommendations for training at the Incident Commander level. This class also meets Cal OSHA training requirements. California Specialized Training Institute certified.

FIRE 171G S 290 Intermediate Wildland Fire Behavior (2.50)
2.50 hours lecture
Prerequisite: Proof of successful completion of S-190 Introduction to Wildland Fire Behavior
Grading: Grade/Pass/No Pass
This is a classroom-based skills course designed to prepare the prospective fireline supervisor to undertake safe and effective fire management operations. It is the second course in a series that collectively serves to develop fire behavior prediction knowledge and skills. Fire environment differences are discussed as necessary; instructor should stress local conditions.

FIRE 172A Instructor 1 / Instructional Methodology (2.50)
2.50 hours lecture
Recommended Preparation: Introduction to the Incident Command System (IS-100.B) or National Incident Management System (IS-700.A).
Transferability: CSU
Grading: Grade/Pass/No Pass
CID-FIRE 250 X
This course provides the skills and knowledge needed for the entry level professional instructor to perform his or her duties safely, effectively, and competently. The curriculum is based on the 2012 edition of NFPA 1041 Standard for Fire Service Instructor Professional Qualifications. At the end of this course, candidates for Instructor I certification will be able to teach and deliver instruction from a prepared lesson plan utilizing instructional aids and evaluation instruments. The Instructor I will also be able to adapt a lesson plan and complete the reporting requirements to the local jurisdiction.

FIRE 172D Ethical Leadership for Instructors (0.50)
0.50 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course provides the knowledge and skills needed to identify the value of ethical behavior in instructional settings. It describes how ethical norms influence individual ethics and will help students identify a personal ethical perspective, core values. and how they impact communication and ethical decision making to carry out the roles and responsibilities of a California State Fire Training instructor.
Notes:
This one-day (eight hour) class is designed for individuals who wish to teach California State State Fire Training courses as a registered instructor and anyone interested in pursuing ethical behavior in an instructional setting. This class is a requirement for certification.

FIRE 173 Legal Aspects of Emergency Services (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Course will address the federal, state, and local laws that regulate emergency services and include a review of national standards, regulations and consensus standards.

FIRE 197A Fire Technology General Topics (0.50-5.00)
0.50-5.00 hours lecture - 1.50-15.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Fire Technology General. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

FIRE 197B Fire Technology Command Topics (0.50-5.00)
0.50-5.00 hours lecture - 1.50-15.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Fire Technology Command. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

FIRE 197C Fire Technology Field Topics (0.50-5.00)
0.50-5.00 hours lecture - 1.50-15.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Fire Technology Field. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

FL-Foreign Languages

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

FL 197 Foreign Languages Topics (0.50-5.00)
0.50-5.00 hours lecture - 1.50-15.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Foreign Languages. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

FREN-French

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

FREN 101 French I (5.00)
5.00 hours lecture - 1.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the first semester of French. This elementary level course is a study of the French language and French-speaking cultures, with emphasis on the development of communicative skills and basic structures. Course combines in-class instruction and practice with self-paced study in the Language Laboratory. This beginning-level course is for students with no previous coursework in French.

FREN 102 French II (5.00)
5.00 hours lecture - 1.00 hours lab
Prerequisite: FREN 101; two years of high school French
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the second semester of French. This elementary level course is a study of the French language and French-speaking cultures, with continued emphasis on the development of communicative skills and basic structures. Course combines in-class instruction with self-paced study in the Foreign Language Laboratory.

FREN 140 Basic French Pronunciation (1.00)
1.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Practice in the basics of French pronunciation. Emphasis on the correct use of intonation, stress, and rhythm.

FREN 197 French Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Topics in French. See Class Schedule for specific topic offered.
Course title will designate subject covered.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

FREN 201 French III (5.00)
5.00 hours lecture - 1.00 hours lab
Prerequisite: FREN 102; Three years of high school French
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the third semester of French. This intermediate level course is a study of the French language and French-speaking cultures, focusing on intermediate level structures and readings of culturally relevant authentic materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in French. Course combines in-class instruction with self-paced study in the World Languages Laboratory. Class is largely conducted in French.

FREN 202 French IV (5.00)
5.00 hours lecture
Prerequisite: FREN 201; four years of high school French
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the fourth semester of French. This intermediate level course is a study of the French language and of special topics on the culture of the French-speaking world. Emphasis is on further development of oral, listening, reading and writing skills in order to improve communicative competence in French. Class is largely conducted in French.

GBST - Global Studies

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

GBST 101 Introduction to Global Studies (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Graded Only
This course is an introduction to the interdisciplinary field of Global Studies, including the history of globalization, and economic, political, social, cultural and ecological developments related to the processes of globalization.

GBST 102 Global Issues (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Graded Only
This course examines contemporary social, economic, political, cultural and environmental change in a global context. It introduces students to the origins, current status and future trends of transnational issues confronting the global community, explores the emergence of global economy, new systems of world order, transnational social movements, global governance, and collective global responsibilities. Through the examination of specific global problems such as economic inequality, population trends, human rights, conflict, security and environmental problems we will consider the impact of globalization around the world.

GC-Graphic Communications

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

GC 115 Graphics and Media: A Multicultural Perspective (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to the impact of media technology on the visual arts from a multicultural perspective. Includes print, Internet, multimedia, and game design. Embraces the diversity and multicultural perspectives that reflect American demographics by presenting individual and collaborative contributions as well as strategies for designing niche marketing and advertising graphics for a multicultural society. Addresses the impact of globalization. Examines gender, ethnicity (African American, American Indian, Asian-Americans and/or Pacific Islanders, and Mexican American in particular), age, sexual orientation, and universal access for people with impairments.

GCIP-Graphic Communications - Imaging and Publishing

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

GCIP 105 Design for Print Production (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Planning, design and layout of visual communication for print production. Basic computer applications for layout of business communication set using color, images, paper, and the lithographic production processes to complete the package. Emphasis is on practical application.

GCIP 140 Photoshop for Digital Imaging I (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The study of digital imaging and editing with Adobe Photoshop for visual, pictorial and graphic use in all media. Emphasis on creating and enhancing imagery for effective use in mass communication mediums. Focuses on basics.

GCIP 141 Photoshop for Digital Imaging II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): GCIP 140
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The concepts of intermediate digital imaging with Adobe Photoshop for visual, pictorial and graphic use in all media. Effective image creation for motion graphics, publications and internet for effective visual communications. Focuses on the technical.

GCIP 149 Page Layout and Design I (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to electronic document design and page layout, electronic composition, text and graphics entry with computers. Students will create a variety of projects including but not limited to: brochures, flyers and newsletters.

GCIP 152 Digital Publishing/Illustrator I (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to computer-generated digital layout. Illustrator will help the student generate new images or convert bitmapped images into PostScript. Quality levels needed for digital output will be evaluated.

GCIP 158 Small Unmanned Aircraft Systems Procedures and Regulations (1.00)
1.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course will equip students with knowledge about the regulations and procedures governing the safe and legal operation of small unmanned aircraft systems (sUAS), commonly referred to as "drones". The scope of this course coincides with the knowledge areas in the Federal Aviation Administration's Part 107 airman knowledge test for a Remote Pilot Certificate with a sUAS rating, and is intended to prepare students who wish to become commercial sUAS pilots for the knowledge test.

GCIP 168 Digital Imaging with Drones (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
An introduction to using drones or unmanned vehicles for digital imaging. This hands-on course covers building, operating, and outfitting for still and video imaging and image capture.

GCIP 170 Screen Printing (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
An introduction to the screen-printing process. Students will produce artwork, select mesh, frames, & stencil systems, inks and substrates based on printing techniques. A combination of laboratory applications and theory will provide the foundation for this course. Acquisition of technical skills through the actual production of screen-printed products is a major goal of this course.

GCIP 172 Textile Screen Printing (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Theory and applications of screen printing for textile use. Students will produce art work, select compatible inks, stencil systems, and substrates based on textile printing applications. A combination of laboratory applications and theory will provide the foundation for this course. Acquisition of technical skills through the actual production of screen-printed products is a major goal of this course.

GCIP 197B Topics in Digital Imaging (1.00-5.00)
1.00-5.00 hours lecture - 3.00-15.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Graphic Communications topics in digital imaging. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

GCIP 240 Photoshop for Digital Imaging III (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: GCIP 140, or GCIP 141
Transferability: CSU
Grading: Grade/Pass/No Pass
The concepts of advanced digital imaging with Adobe Photoshop for creating and preparing images for electronic distribution. Advanced methods of editing in all venues of digital media for visual communications. Focuses on the creative.

GCIP 252 Digital Publishing/Illustrator II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: GCIP 152
Transferability: CSU
Grading: Grade/Pass/No Pass
Advanced concepts and methods of Illustrator and its use in graphic illustrations and problem solving digital file production. Software capabilities for use in preparing computer files for publishing to digital and electronic delivery systems.

GCIP 268 Digital Imaging with Drones II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: GCIP 168
Transferability: CSU
Grading: Grade/Pass/No Pass
Intermediate uses of unmanned vehicles for digital imaging. This hands-on course covers high resolution video, aerial imaging, intelligent mission planning, and the use of multispectral payloads for image capture, editing, mapping and related uses.

GCIP 270 Commercial Screen Printing (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: GCIP 170; GCIP 172
Transferability: CSU
Grading: Grade/Pass/No Pass
An advanced study of various commercial screen-printing applications. Printing processes, business aspects, case studies, advanced color reproduction, close register with an emphasis on quality control.

GCMW-Graphic Communications - Multimedia and Web

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

GCMW 101 Multimedia I (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to multimedia authoring software and motion graphics combining text, graphics, sound, animation, video and user interface to produce effective visual presentations.

GCMW 102 Web Page Layout I (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
A hands-on introduction to page layout for the Internet. Typographic considerations, screen layout, graphical interfaces, and structured page design for effective Internet communications.

GCMW 106 Multimedia for Social Networking (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to the language and practice of media production as it is implemented for social networking. Students will learn the moviemaking process: preproduction; capture footage; capture audio; import digital video and audio to the computer from the camera; edit; export; and distribute. In this hands-on course, students will organize and share their photo library; create polished video and soundtracks; and produce movies, photobooks, podcasts, Websites, blogs, and custom DVDs. By becoming media producers, students will cultivate their analytical abilities as students of communication and as critics and viewers of media and cultural products which are forms of communication technology.

GCMW 115 Web Page Layout/WordPress I (2.00)
1.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
A hands-on course on WordPress, a flexible software for blogging and content management. Students will learn WordPress installation, implementation, enhancements with add-ins, and customization of design and features.

GCMW 120 Designing for the Social Web (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Focuses on the understanding of graphical user interface design for the social Web environment (Web 2.0), such as wikis, blogs, and social networks. Covers fundamental Social Web principles in order to develop designs from a user perspective. Covers Web technologies, market research, usability and human factors, wireframe and sitemap documentation, Web design, cross browser functionality, Web typography, and search engine marketability. The development of marketable, original, and creative problem solving solutions will also be examined with an emphasis on Web branding. In this hands-on class, students will participate in social networks such as wikis and blogs.

GCMW 165 Digital Video Design (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Explores project planning, set-up, editing, and output of digital video. Incorporates sound, graphics, 2D animation, video, and text for full-screen, web, and DVD playback. Projects and assignments utilize transitions, superimposing, transparency and keying, video, audio, and other special effects.

GCMW 177 Search Engine Optimization (SEO) for Web Design (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: GCMW 102
Transferability: CSU
Grading: Grade/Pass/No Pass
Integrate Search Engine Optimization (SEO) techniques to improve search engine traffic, visibility, conversion, and Return on Investment (ROI). This hands-on course presents guidelines and techniques for SEO strategy and implementation. Optimize Website design through complex design technologies such as wireframes, dynamic content, pay per click, keywords, copywriting, graphics, and multimedia. Incorporate blogs, forums, and chat. Measure traffic with analytics and metrics.

GCMW 201 Multimedia II (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: GCMW 101; GCMW 205
Transferability: CSU
Grading: Grade/Pass/No Pass
Strategies and techniques for designing successful multimedia projects in Apple Logic Pro X with emphasis on audio for Internet, video, composites and motion graphics.

GCMW 202 Web Page Layout II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: GCMW 102
Transferability: CSU
Grading: Grade/Pass/No Pass
Multimedia web site design and production using advanced WYSIWYG editor that permits editing hypertext markup language (HTML) as well as designing to current standards of CSS and interactivity. Includes mechanics for site production as well as methodologies for project planning and management.

GCMW 204 Motion Graphics for Multimedia (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: GCIP 140
Transferability: CSU
Grading: Grade/Pass/No Pass
Explores project planning, set-up, execution, and output of motion-based graphics. Incorporates exploration and integration of sound, graphics, digital video, 2-D animation, transparencies and text for multimedia.

GCMW 205 Digital Video for Multimedia (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Concepts, design and development of digital video production and editing skills as they relate to Internet, mobile devices, screen media, and physical delivery formats. Students will incorporate typography, graphics, animation and video into real-world projects.

GCMW 215 Web Page Layout/WordPress II (2.00)
1.00 hours lecture - 3.00 hours lab
Prerequisite: GCMW 115; GCMW 102
Transferability: CSU
Grading: Grade/Pass/No Pass
A hands-on course on WordPress, a flexible software for blogging and content management. Students will learn advanced customization and advanced features.

GCMW 220 Designing for Web Standards (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: GCMW 102
Transferability: CSU
Grading: Grade/Pass/No Pass
Web site design and production using current standards, trends, and best practices that integrates advanced tools. Incorporates hands-on production featuring web graphics, user experience (UX), human factors, web accessibility (ADA/Section and 508 compliance), social web design, and adaptive frameworks such as Bootstrap/Responsive web design for handheld devices. Heavy emphasis on page layout using Cascading Style Sheets (CSS) and emerging technology.

GEOG-Geography

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

GEOG 100 Earth's Dynamic Environment: Introduction to Physical Geography (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-GEOG 110
A study of earth's physical environment with emphasis on weather, climate, landform, soils, natural vegetation and the interrelationship between these elements within unique physical landscapes.

GEOG 100L Earth's Dynamic Environment: Physical Geography Lab (1.00)
3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): GEOG 100
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-GEOG 111
Laboratory and field investigations in weather elements, climate regions, soils, world ecosystems, and Earth's landform features. Satisfies laboratory requirement in physical sciences.

GEOG 103 World Regional Geography (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-GEOG 125
Critical survey of the major world regions with specific focus on physical and cultural components, such as development, economics, population and migration, political structure, and natural resources and the physical environment.

GEOG 105 People and the Environment: Introduction to Human Geography (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-GEOG 120
Human elements of geography, including population distribution, general land-use patterns, religion, trade and economy, and their correlation with the physical elements. Emphasis on world cultural regions with attention paid to interdependence and globalization.

GEOG 110 Meteorology: Weather and Climate (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID GEOG 130
Elements of weather including temperature, moisture, air pressure, and circulation of the atmosphere; air masses, storms, and their geographical distribution. Practical applications in the use of weather instruments, and the reading and interpretation of weather maps and climatological data.

GEOG 115 Natural Disasters and Environmental Hazards (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: ES 115
Examination and analysis of natural disasters and environmental hazards including earthquakes, tsunamis, volcanic activity, hurricanes, climate change, flooding, mass movement, wildfire, and impacts with space objects.

GEOG 120 Digital Earth: Introduction to Geographic Information Systems (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-GEOG 155
An introduction to the mapping sciences with a primary focus on Geographic Information Systems (GIS). Covers the trends, history, structure, applications, hardware and software, and basic operations of GIS in order to provide a foundation for the use of GIS software. Related geographic technologies to be examined include mapping, aerial and satellite imagery, and Global Positioning Systems (GPS). The lab portion will provide introductory training in the use of ArcGIS software including identifying, evaluating, and inputting spatial data, developing and using raster and vector data sets, converting data from one form to another, and applying programming with GIS software.

GEOG 132 Database Management and Data Acquisition (4.00)
4.00 hours lecture
Prerequisite: (Completion of, or concurrent enrollment in): GEOG 120
Transferability: CSU
Grading: Grade/Pass/No Pass
Course provides students with knowledge and practical experience in the fundamentals of database management, and the acquisition, conversion, and creation of spatial data within Geographic Information Systems (GIS). Topics to include strategic design, querying, modeling techniques, data appropriateness and accuracy, hardware and software requirements, conversion of digital data, creating digital data using digitizers, scanners and Global Positioning Systems (GPS), and utilization of remote sensing, photogrammetry, and web-based data. This course provides hands-on experience with database management and data acquisition using ArcGIS software.

GEOG 134 GIS Applications and Programming (2.00)
1.00 hours lecture - 3.00 hours lab
Prerequisite: GEOG 120
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides advanced knowledge and practical experience in developing and customizing Geographic Information Systems (GIS) desktop and web applications. Students will learn the fundamentals of the Python scripting language, as well as the use of models and custom scripts. The lab activities will work with script tools, introductory web mapping interface, and modelbuilder.

GEOG 136 Intermediate ArcGIS: GIS Analysis (2.00)
1.00 hours lecture - 3.00 hours lab
Prerequisite: GEOG 120
Transferability: CSU
Grading: Grade/Pass/No Pass
Focus on performing complex operations using the ArcGIS software. Students will gain hands-on experience in advanced querying operations, Spatial Analyst and Network Analyst, coordinate geometry, ArcGIS ModelBuilder, and the application of ArcGIS in a variety of disciplines.

GEOG 138 GIS Internship (0.50-2.00)
1.50-6.00 hours lab
Prerequisite: GEOG 120
Transferability: CSU
Note: May be taken up to 4 times for up to 8.00 total units
Grading: Grade/Pass/No Pass
The Geographic Information Systems (GIS) internship is a directed program allowing students to apply classroom instruction to real-world GIS problem solving by working with a government or private agency. Students will be under the supervision of an instructor from the college and an advisor from the agency while working in one or more aspects of GIS operations. Sixty hours is required for each credit unit in an unpaid internship, and seventy-five hours is required for each credit unit in a paid internship.

GEOG 140 Introduction to Remote Sensing and Drone Data Processing (3.00)
3.00 hours lecture
Prerequisite: (Completion of, or concurrent enrollment in): GEOG 120
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides students with a basic understanding of theories and techniques used in the processing and analysis of satellite and drone (i.e. Unmanned aircraft systems) data. Topics include image and sensor characteristics, information derived from satellite and drone data, and image interpretation and analysis.

GEOG 142 Environmental Applications of GIS (1.00)
1.00 hours lecture
Prerequisite: GEOG 120
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides students with knowledge and practical experience in the application of GIS in an environmental setting. We will explore how location-based GIS tools are used in many areas of environmental management such as natural disasters, biodiversity, water resources, and pollution. Case studies will be used to explore and understand how GIS is being used to help preserve the earth's resources and environment.

GEOG 143 Introduction to Cartography and Computer Mapping (1.00)
1.00 hours lecture
Prerequisite: GEOG 120
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Provides the technical and design skills needed to create an effective map using Geographic Information Systems (GIS). Students will receive a review on map projection, coordinate systems, and datum transformation issues. In addition, students will learn about map templates, map annotations, and other tools that are used to enhance spatial data presentation.

GEOG 144 Internet Mapping and Application Development (3.00)
2.50 hours lecture - 1.50 hours lab
Prerequisite: GEOG 120
Transferability: CSU
Grading: Grade/Pass/No Pass
Involves the design, creation, configuration, and optimization of geospatial services and applications to deliver content across the Internet. The student will construct web mapping applications with a variety of user interfaces.

GEOG 145 LiDAR Data Processing and GIS Integration (1.00)
1.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course will introduce students to basic concepts in Light Detection and Ranging (LiDAR). Students will also learn to process LiDAR data collected by unmanned aircraft systems (UAS), and analyze this data using Geographic Information Systems (GIS).

GEOG 195 Regional Field Studies in Geography (1.00-3.00)
0.50-1.50 hours lecture - 1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID GEOG 160
Extended field studies of the geography of selected regions. Emphasis upon field observation and interpretation of climate, meteorology, vegetation, soils, and landforms.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

GEOG 197 Geography Topics (1.00-4.00)
1.00-4.00 hours lecture - 3.00-12.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Units awarded in topics courses are dependent upon the number of hours required of the students. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

GEOG 295 Directed Study in Geography (1.00-3.00)
3.00-9.00 hours lab
Prerequisite: Approval of project or research by instructor
Transferability: CSU
Grading: Grade/Pass/No Pass
Independent study for students who have demonstrated skills and/or proficiencies in geography subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

GEOL-Geology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

GEOL 100 Physical Geology (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Geology is the study of Earth and the processes that shape the world around us. Geologic concepts and principles provide a framework for understanding the dynamics of Earth's interconnected cycles and processes. Topics covered will include: the origin and composition of the earth, formation and classification of minerals and rocks, tectonic processes, concept of geologic time, geologic processes that shape Earth's landscape, and the influence of geology on society.

GEOL 100L Geology Laboratory (1.00)
3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): GEOL 100
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID GEOL 100L
Geology Laboratory provides an opportunity to actively explore and demonstrate an understanding of concepts, principles, and interactions within Earth's systems. Topics will include: identification of minerals and rocks, tectonic processes, interpretation of topographic and geologic maps, geologic time, geologic processes that shape Earth's landscape, and the influence of geology on society.

GEOL 110 General Geology: National Parks and Monuments (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Geologic history and processes of formation of our natural landscape. Principles of physical and historical geology as revealed in the structure, stratigraphy, and rock types of the parks and monuments.

GEOL 120 Planets, Moons, and Comets (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: ASTR 120
The astronomy and geology of the solar system, observations, dynamics, relativistic ideas, including theories of formation and evolution. Comparative survey of the atmospheres, surface features and interiors of planets and satellites. Minor objects, such as comets and asteroids, will be included.

GEOL 150 Dinosaurs and Earth History (3.00)
3.00 hours lecture
Prerequisite: GEOL 100
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID GEOL 110
Principles of historical geology. The origin and evolution of Earth and its biosphere, incorporating global tectonics, stratigraphy, fossils, biological evolution, geologic dating, and the processes that have influenced paleogeography during the past 4.6 billion years. Together with GEOL 100, a prerequisite to upper division courses in geology.

GEOL 150L Dinosaurs and Earth History Laboratory (1.00)
3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): GEOL 150
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID GEOL 110L
Lab component exploring the principles of historical geology. Activities investigate the origin and evolution of Earth and its biosphere, global tectonics, stratigraphy, fossils, biological evolution, geologic dating, and the processes that have influenced paleogeography during the past 4.6 billion years.

GEOL 195A Field Studies in Geology: Regional (1.00-3.00)
0.50-1.50 hours lecture - 1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Extended field studies of the geology of western North America over weekends and during vacation and summer sessions. Emphasis upon field observation and interpretation of rock types, landforms, and structure. Locations will not duplicate those specified in Geology 195B through 195F. Localities visited may vary from year to year.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

GEOL 195B Field Studies in Geology: Southern California Coastal Region (1.00-3.00)
0.50-1.50 hours lecture - 1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Extended field studies of the geologic processes that shape the coastal region of Southern California. Emphasis on coastal processes and landforms, oceanographic climate, geologic development of the Continental Borderland and Transverse Ranges, formation and development of oil and gas resources, coastal sediment resource management, geologic hazards and human impacts in the coastal zone.

GEOL 195C Field Studies in Geology: Salton Trough Region (1.00-3.00)
0.50-1.50 hours lecture - 1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Extended field studies of the geologic processes that shape the Salton Trough region of Southern California. Emphasis on the active plate boundary zone, including opening of the Gulf of California and development of the San Andreas Fault system. Specific topics include tectonic-related landforms, earthquake dynamics and history, stratigraphy, evolution of Cenozoic climate and fauna, geothermal resources, and Salton Sea history and environmental management.

GEOL 195D Field Studies in Geology: Colorado Plateau Region (1.00-3.00)
0.50-1.50 hours lecture - 1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Extended field studies of the geologic processes that shape the Colorado Plateau region. Emphasis on stratigraphy and paleogeography, development and hydrology of the Colorado River system, erosional landforms, fossil and mineral resources, regional structural deformation, igneous and volcanic history, and relationship to the ancestral and modern Rocky Mountains.

GEOL 195E Field Studies in Geology: Sierra Nevada Region (1.00-3.00)
0.50-1.50 hours lecture - 1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Extended field studies of the geologic processes and landscape evolution of the Sierra Nevada region. Emphasis on Pleistocene glacial history and glacial landforms, subduction zone processes including pluton emplacement and terrane docking history, Long Valley-Inyo Craters volcanic history, gold mineralization and mining history, regional fault systems, volcanism and uplift of the modern Sierra Nevada range.

GEOL 195F Field Studies in Geology: Death Valley Region (1.00-3.00)
0.50-1.50 hours lecture - 1.50-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Extended field studies of the geologic processes that shape the Death Valley region. Emphasis on the tectonic evolution of the Death Valley and the Basin and Range province, depositional history of stratigraphic units from Proterozoic through Paleozoic, volcanic history, mineral and mining resources, structural landforms including the extensive faulting and folding, water resources, and climate history and development of desert landforms.

GEOL 197 Geology Topics (1.00-3.00)
1.00-3.00 hours lecture - 3.00-9.00 hours lab
Transferability: CSU
Grading: Graded Only
Topics in Geology. See Class Schedule for specific topic offered. Course title will designate subject covered.

GEOL 295 Directed Study in Geology (1.00-3.00)
3.00-9.00 hours lab
Prerequisite: GEOL 150
Transferability: CSU
Grading: Grade/Pass/No Pass
Individual study in field, library, or laboratory for interested students.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

GERM-German

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

GERM 101 German I (5.00)
5.00 hours lecture - 1.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the first semester of German. This elementary level course is a study of the German language and German-speaking cultures with emphasis on the development of communicative skills and basic structures through listening, speaking, reading and writing. Course combines in-class instruction and practice with self-paced study in the World Languages Resource Center. No previous experience in German is required.

GERM 102 German II (5.00)
5.00 hours lecture - 1.00 hours lab
Prerequisite: GERM 101; two years of high school German
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the second semester of German. This elementary level course is a study of the German language and German-speaking cultures with continued emphasis on the development of communicative skills and basic structures through listening, speaking, reading and writing. Course combines in-class instruction and practice with self-paced study in the World Languages Resource Center.

GERM 201 German III (5.00)
5.00 hours lecture - 1.00 hours lab
Prerequisite: GERM 102, or three years of high school German
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the third semester of German. This intermediate level course is a study of the German language and German-speaking cultures, focusing on the intermediate level structures and readings of culturally relevant materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in German. Course combines in-class instruction with self-paced study in the World Languages Resource Center. Class is largely conducted in German.

GERM 202 German IV (5.00)
5.00 hours lecture
Prerequisite: GERM 201; four years of high school German
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the fourth semester of German. It is a continued study of the German language and German-speaking cultures, focusing on the refined use of intermediate-level structures and readings of culturally relevant authentic materials. Emphasis is on the expansion of cross-cultural awareness, as well as the development of language skills in order to acquire communicative competence in German. The course teaches culture and facilitates language acquisition through listening, speaking, reading and writing. Students interact with more sophisticated and more varied authentic language in context. Class is conducted in German.

GERM 225 German Reading and Conversation (3.00)
3.00 hours lecture
Prerequisite: GERM 102, or three years of high school German.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An intermediate-level study of the German language and culture. Focus is on spoken language with readings of cultural material serving as a basis for discussion. Course is taught in German.

HE-Health

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

HE 100 Health Education and Fitness Dynamics (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course will require students to explore, analyze, personalize, and discuss the following issues as they relate to the essential components of health and wellness: nutrition, physical activity/ exercise/fitness, weight control, mental health, stress and coping mechanisms, violence, substance use/abuse, sexuality, sexually transmitted infections, contraception, relationships, disease prevention, environment, health care, aging, and general public health issues. Students will gain the knowledge and skills necessary to adopt and apply lifestyle behaviors that enhance their overall health and well-being.

HE 100L Health Performance Lab (1.00-2.00)
3.00-6.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Fitness lab course designed to develop and encourage positive attitudes and habits with regards to health education and fitness dynamics. Lab participation will primarily utilize exercise equipment as it relates to cardiovascular efficiency, body composition, muscular strength and endurance and flexibility. An individual fitness profile will be established, including pre-post testing, to determine each student's fitness accomplishments.

HE 104 Emergency Medical Responder (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID KINE 101
Covers national curriculum for Emergency Medical Responder (EMR) training. Includes the study and application of emergency medical skills and procedures, basic anatomy and physiology, terminology, and prevention of disease transmission. CPR certification from the American Heart Association.

HE 197 Current Topics in Health (1.00-3.00)
1.00-3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Current issues in health education, meeting student and community educational needs dealing with the social, mental, and physical aspects of personal health. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

HIST-History

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

HIST 101 History of the United States Through Reconstruction (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Political, economic, social, and cultural development of the American people through Reconstruction with particular emphasis on the colonial period; the Revolution; constitutional development; westward expansion with emphasis on California and frontier influences; emergence of sectionalism; the Civil War and Reconstruction.

HIST 102 History of the United States Since Reconstruction (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Political, economic, social, and cultural developments of the American people since Reconstruction. Emphasis will be on the westward and farm movements, industrial development, twentieth century reform movements, the United States as a world power, and civil rights. Special consideration will be given to the development of California state and local government.

HIST 105 History of Europe Through the Reformation (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A survey of Greece, Rome and medieval Europe, with emphasis on the heritage, ideas, attitudes, and institutions basic to European history.

HIST 106 History of Europe Since the Reformation (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Emergence of modern Europe, expansion of European power and influences; emphasis on cultural and intellectual trends which affect Europe in the Twenty-first Century.

HIST 107 World History To 1650 (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The growth of civilizations and the interrelationships of the peoples of Europe, Asia, Africa, and America to 1650.

HIST 108 World History Since 1650 (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The development of the civilizations and the interrelationships of the peoples of Europe, Asia, Africa, and America since 1650.

HIST 121 History of California (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The history of California from the origins of the native peoples to the present. Course focuses on the events and people who shaped the development of California with an emphasis on the many diverse cultural elements (native peoples, Hispanics, Anglo-Americans, Asians, African-Americans, Pacific Islanders, and women) involved.

HIST 130 Women in United States History (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A survey of the changing role, status, and contributions of women in the United States from the colonial period to the present. Their social, economic, political, and religious positions in American society are examined.

HIST 140 History of the Americas Through 1800 (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Surveys the evolution of the political, economic, and social institutions of the societies of the Western Hemisphere from the 14th through the 18th centuries. Examines major pre-Columbian Indian Cultures, European exploration and colonization, life in the colonial Americas, and the achievement of independence by the United States. Latin America, Canada, and the United States are studied from a comparative perspective. Included is consideration of the Constitution of the United States.

HIST 141 History of the Americas Since 1800 (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
History of the American nations in the 19th and 20th centuries with emphasis on the Latin American wars of independence, inter-American relations, the foreign policy of the United States and its relation to Latin America, Canada's relations with other nations of the hemisphere, and the transition of Latin American society in the 20th century.

HIST 150 History of Latin America to 1824 (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A survey of the historical evolution of the peoples and states of Latin America with special attention to the indigenous states and empires of the Americas, their conquest by the Iberian nations of Europe, the creation of multi racial colonial empires, and the growth of creole nationalism which lead to the overthrow of the Iberian empires at the beginning of the 19th century.

HIST 151 History of Latin America from Independence to the Present (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A survey of the republics of Latin America since independence that concentrates on the political evolution of these nations and the social and economic institutions that characterize the region. Special attention will be given to the contrast between the urban and rural cultures and economies, as well as the political and economic relations of the region with the world and the United States in particular.

HIST 160 History of the Middle East from 600 to the Present (3.00)
3.00 hours lecture
Recommended Preparation: HIST 107
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
History of the Middle East from the origins of Islam to contemporary times. Topics include the political, social, and economic development of Islam, the early caliphates, the Crusades, the Ottoman and Safavid empires, European imperialism, and modern Middle Eastern states.

HIST 295 Directed Study in History (1.00-3.00)
3.00-9.00 hours lab
Prerequisite: Approval of project or research by department chairperson
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Independent study for students who have demonstrated a proficiency in history subjects and have the initiative to work independently on projects or research that does not fit into the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

HUM-Humanities

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

HUM 100 Introduction to Humanities I (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Examines significant movements and developments in literature and other arts in Western culture from classical times to the late Middle Ages. Emphasis is on ideas and their realization in works of art.

HUM 101 Introduction to Humanities II (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A general survey of the fine arts in the Western world. Arranged chronologically rather than thematically, the course material includes consideration of the major achievements of Western culture from the Renaissance until the present.

IBUS-International Business

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

IBUS 100 Introduction to International Business and Management (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Surveys the international dimension of business including trade, financial, economic, cultural framework, foreign investment patterns, and international managerial problems and policies at the corporate level. Also covers the role of the international manager with regard to entering foreign markets and supervising operations in existing markets, and the pros and cons of protectionism.

IBUS 120 Essentials of Import/Export Procedures (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Application of practical aspects of export and import procedures by international business: organization, development of foreign sales, export and import procedures, and regulations and documentation of financial operations of global trade.

ID-Interior Design

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ID 100 Introduction to Interior Design (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
This course begins the design series by introducing the interior design process and the elements and principles of design. Beginning drafting, space planning, the use of color and the application of these skills are used to develop residential interiors from design concepts to presentations.

ID 105 Materials and Resources (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Selection, care, and use of sustainable materials and fabrics used in residential and commercial interior design. Emphasis on designer selection and specifications of fabrics and materials for upholstery, furniture, window treatments, floor coverings, and accessories. Applications of the methods, techniques, and tools used to specify and illustrate products.

ID 125 Presentation Methods in Interior Design (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Form-space comprehension in relationship to furniture placement through residential and commercial design drawing exercises, including one and two-point perspective problems.

ID 141 Commercial Interior Design (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): ID 100; ARCH 105
Transferability: CSU
Grading: Grade/Pass/No Pass
Development of non-residential spaces from design concept to installation. Includes health care facilities and open office interiors. Emphasizes client analysis, space planning, materials specifications, architectural drawings, lighting plans, and budget analysis.

ID 145 Kitchen and Bath Design (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Focuses on the principles and procedures involved in designing the kitchen for the most efficient residential and commercial use. Concentrates on the major aspects of planning the kitchen with special consideration of selection and location of equipment; arrangement of work and storage spaces; standards for appliances; health, safety and human anatomy; San Diego Building Codes and Minimum Property Standards; detailed floor plan, working drawings, and cost estimates for labor and material.

ID 150 Beginning Computer Aided Drafting (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: ARCH 150
An introduction to beginning computer aided drafting for architecture and interior design applications using Windows based AutoCAD software and IBM compatible computers. Beginning techniques in the operation of CAD software, design processes and editing techniques, storage and retrieval of drawings, professional presentation and plotting techniques.

ID 151 Beginning Revit (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): ID 150
Transferability: CSU
Grading: Grade/Pass/No Pass
Advanced applications in drafting using AutoCAD and Revit software to include topics in prototype drawings, using specific libraries, external references, finish schedules, basic and advanced 3-Dimensional modeling, and, 3 Dimensional Renderings. Meets the current needs of the professional working designer.

ID 170 Space Planning (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): ARCH 105
Transferability: CSU
Grading: Grade/Pass/No Pass
The application of programming, theory, and techniques in residential and commercial space planning. Skills in drafting and presentation techniques are emphasized.

ID 197 Interior Design Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Interior Design. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

ID 250 Interior Design Capstone (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: ID 100 and ID 125; **Prerequisite: (Completion of, or concurrent enrollment in):** ID 141
Transferability: CSU
Grading: Grade/Pass/No Pass
In this course students will create a comprehensive professional package of their academic and professional work, and learn about specific business and professional practices as they apply to residential and commercial interior design. Contracts, billing, career opportunities, business formations, and skills required for employment are also presented. Students will learn marketing and branding strategy, as well as graphic design techniques for laying out their projects in both book and digital portfolio formats. Students will exit the class with a professional package consisting of logo, business cards, resume on letterhead, portfolio, and webpage.

IT-Industrial Technology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

IT 108 Technical Mathematics (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: WELD 108
Methods and experience in defining and solving mathematical problems in industrial technology. Special emphasis will be given to the application of these basic processes to the solution of the unique mathematical problems encountered in the areas of architecture, automotive, drafting, machine, welding, and woodworking technology.

ITAL-Italian

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ITAL 101 Italian I (5.00)
5.00 hours lecture - 1.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the first semester of Italian. This elementary level course is a study of the Italian language and Italian-speaking cultures, with emphasis on the development of communicative skills and basic structures. Course combines in-class instruction and practice with self-paced study in the Foreign Language Laboratory. This beginning level course is for students with no previous coursework in Italian.

ITAL 102 Italian II (5.00)
5.00 hours lecture - 1.00 hours lab
Prerequisite: ITAL 101; two years of high school Italian
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the second semester of Italian. This elementary level course is a study of the Italian language and Italian-speaking cultures, with emphasis on the development of communicative skills and basic structures. Course combines in-class instruction and practice with self-paced study in the Foreign Language Laboratory.

ITAL 197 Italian Topics (1.00-10.00)
0.50-5.00 hours lecture - 1.50-15.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Topics in Italian. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. May be transferable to UC upon UC's review of the course syllabus.

ITAL 201 Italian III (5.00)
5.00 hours lecture - 1.00 hours lab
Prerequisite: ITAL 102; three years of high school Italian
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the third semester of Italian. This intermediate level course is a study of the Italian language and Italian-speaking cultures, focusing on intermediate-level structures and readings of culturally relevant authentic materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in Italian. Course combines in-class instruction and practice with self-paced study in the World Languages Laboratory. Class is largely conducted in Italian.

ITAL 202 Italian IV (5.00)
5.00 hours lecture
Prerequisite: ITAL 201; four years of high school Italian
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Fourth semester of Italian. A continued study of the Italian language and culture, focusing on the refined use of intermediate-level structures and readings of culturally relevant authentic materials. Emphasis is on the expansion of cross-cultural awareness, as well as, the development of language skills in order to acquire communicative competence in Italian. Teaches culture and facilitates language acquisition through listening, speaking, reading and writing. Interacts with more sophisticated authentic language in context. Conducted in Italian.

ITAL 225 Italian Reading and Conversation (3.00)
3.00 hours lecture
Prerequisite: ITAL 102, or three years of high school Italian.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An intermediate-level study of the Italian language and culture. Focus is on spoken language with readings of cultural material serving as a basis for discussion. Course is taught in Italian.

JAPN-Japanese

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

JAPN 101 Japanese I (5.00)
5.00 hours lecture - 1.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the first semester of Japanese. This elementary-level course is a study of the Japanese language and Japanese-speaking cultures, with emphasis on the development of communicative skills and basic structures. The course includes a study of fundamental grammar, idiomatic expressions, Hiragana and Katakana, and Kanji. Course combines in-class instruction and practice with self-paced study in the World Languages Resource Center. This beginning-level course is for students with no previous coursework in Japanese.

JAPN 102 Japanese II (5.00)
5.00 hours lecture - 1.00 hours lab
Prerequisite: JAPN 101, or two years of high school Japanese
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the second semester of Japanese. This elementary level course is a study of the Japanese language and Japanese-speaking cultures, with emphasis on the development of communicative skills and basic structures. The course includes a study of fundamental grammar, idiomatic expressions, Kanji (Chinese characters) in addition to Hiragana and Katakana (Japanese alphabets). Course combines in-class instruction and practice with self-paced study in the Foreign Language Laboratory.

JAPN 130 Introduction of Japanese Culture and Literature (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is designed to provide students with a broad understanding of Japanese culture and society through non-fictional and fictional literary texts and films from ancient times to present. It will include a brief survey of Japanese history as it relates to cultural developments in Japanese literature, film and the arts. There will be a special focus on critically examining literary texts and films to understand and interpret their cultural, social and historical context through primary sources (literature in translation, plays, film, anime, manga, etc.) and secondary sources (literary and cultural criticism). Select readings will introduce students to various topics including folklore, westernization, women's studies, war, and current popular culture. This course is discussion-based and will be conducted in English.

JAPN 197 Japanese Topics (0.50-5.00)
0.50-5.00 hours lecture - 1.50-15.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Topics in Japanese. See Class Schedule for specific topic offered. Course title will designate subject covered.

JAPN 201 Japanese III (5.00)
5.00 hours lecture - 1.00 hours lab
Prerequisite: JAPN 102; three years of high school Japanese
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the third semester of Japanese. This intermediate level course is a study of the Japanese language and Japanese-speaking cultures, focusing on intermediate level structures and readings of culturally relevant authentic materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in Japanese. Course combines in-class instruction with self-paced study in the World Languages Laboratory. Class is largely conducted in Japanese.

JAPN 202 Japanese IV (5.00)
5.00 hours lecture
Prerequisite: JAPN 201; four years of high school Japanese
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is the fourth semester of Japanese. This intermediate level course is a study of the Japanese language and of special topics on the culture of the Japanese-speaking world. Emphasis is on further development of cross-cultural awareness, as well as the development of oral, listening, reading and writing skills in order to improve communicative competence in Japanese.

JOUR-Journalism

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

JOUR 101 Newswriting and Reporting (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
CID-C-ID JOUR 110
This is the introductory journalism course on reporting and newswriting. This course prepares students for future journalism classes and a journalism degree by providing foundational knowledge of journalism content creation. The course covers media law and ethics, AP Style, research, reporting, source cultivation and interviewing. It also introduces students to news and feature writing skills while continually emphasizing the need for verified, fact-based information. Lastly, it explores various job options that require these journalism skills.

JOUR 105 College News Media Production 1 (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
The course is the first in a series of four courses that allow students to write, report, and publish news and feature content for Palomar's student news media. This class makes up the staff of the independent, student-run publication called The Telescope, Palomar's campus newspaper since 1948. It also publishes Palomar's independent news magazine called Impact Magazine. The course teaches story development, reporting, and interviewing according to journalism standards. Students will write and produce fact-based news, features, sports, and opinion content for online and printed publications.

JOUR 130 Multimedia Journalism (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
CID-C-ID JOUR 120
This course shows students how to report and write a news article and then go further by adding photography, graphics, audio, and video news content. This class allows students' work to be published on the campus newspaper website and its social media platforms. The course teaches media ethics, research, and reporting strategies and how to package that fact-based information into multimedia elements that will inform the campus community. This course provides hands-on experience in the field of multimedia journalism and results in portfolio-worthy projects.

JOUR 200 Mastering Social Media (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
CID-DMGR 120 X
Explores social media from a content perspective. Learn the fundamentals of social media, the theories behind writing for it, as well as the ethics and standards of information generated. Also explores how to use social media to get content to the masses.

JOUR 205 College News Media Production 2 (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
The course is the second in a series of four courses that allow students to write, report and publish news and feature content for Palomar's student news media. This class makes up the staff of the independent, student-run publication called The Telescope, Palomar's campus newspaper since 1948. It also publishes Palomar's independent news magazine called Impact Magazine. The course teaches intermediate-level story development, reporting, and interviewing according to journalism standards. Students will continue to write and produce fact-based news, features, sports, and opinion content for online and printed publications. They will also focus on multimedia news elements. The course will introduce more difficult types of news writing, including enterprise and investigative packages.

JOUR 210 College News Media Production 3 (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
The course is the third in a series of four courses that allow students to write, report, and edit news and feature content for Palomar's student news media. This class makes up the staff of the independent, student-run publication called The Telescope, Palomar's campus newspaper since 1948. It also publishes Palomar's independent news magazine called Impact Magazine. The course teaches advanced-level story development, reporting, and interviewing according to journalism standards. Students will continue to write and produce, but also begin editing fact-based news, features, sports, and opinion content for online and printed publications, as well as produce multimedia news elements. The course will include more difficult types of news writing, features and multimedia packages.

JOUR 215 College News Media Production 4 (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
The course is the fourth in a series of four courses that allow students to write, report, and edit news and feature content for Palomar's student news media. This class makes up the staff of the independent, student-run publication called The Telescope, Palomar's campus newspaper since 1948. It also publishes Palomar's independent news magazine called Impact Magazine. The course teaches advanced level story development, reporting, and interviewing according to journalism standards. Students will continue to edit and produce fact-based news, features, sports, and opinion content for online and printed publications as well as produce multimedia news elements. The course will end with a final journalism project.

JOUR 295 Directed Study in Journalism (1.00-3.00)
3.00-9.00 hours lab
Prerequisite: Approval of project or research by department chairperson/director
Transferability: CSU
Grading: Grade/Pass/No Pass
Independent study for students who have demonstrated skills and/or proficiencies in Journalism subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

KINE-Kinesiology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

KINE 47 Physical Education/Kinesiology Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Grading: Grade/Pass/No Pass
Topics in Physical Education/Kinesiology. See class schedule for specific topic covered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. Non-degree Applicable

KINE 100 Introduction to Kinesiology (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to an interdisciplinary approach to the study of human movement. Sub-disciplines will introduce students to the various fields closely related to Kinesiology. Focus on studying the goals and objectives of modern Kinesiology with a view toward the development of a basic philosophy and background for the professions of teaching, coaching, allied health and/or fitness career.

KINE 102 Physical Education in Elementary Schools, Movement and Theory (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Develop understanding, knowledge, and appreciation of physical education activities adapted to the needs and interests of elementary school children. Experience in planning, writing, and conducting physical education programs and curriculum. Specific attention will also be given to drugs/narcotics, alcohol, and tobacco and the physiological and sociological effects of each.

KINE 105 Cardio Conditioning Applications (1.50)
1.00 hours lecture - 1.50 hours lab
Transferability: UC/CSU
Grading: Graded Only
Instruction designed to reinforce and improve one's individual fitness exercise program through the implementation of cardio respiratory fitness modes. The course will utilize current fitness technology and fitness applications that monitor fitness modes including, but not limited to, walking, power walking, jogging, cycling, hiking, and related cardio training. Students will apply fitness terminology, assess and analyze their initial and final cardio fitness level and monitor daily tracking of cardio respiratory fitness principles. Students will design and individualized fitness program to evaluate improvement of various fitness applications and tests as well as their impact on fitness parameters and promoting lifelong wellness.

KINE 117A Beginning Golf: Techniques and Analysis (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introductory course teaching the history, traditions and the development of the basic skills of golf. Swing fundamentals, scoring, rules, etiquette, and course layout will be introduced. Application of golf course management skills through practice and situational play will be emphasized.

KINE 117B Intermediate Golf: Techniques and Analysis (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Designed for those students who have mastered the basic skills of beginning golf. Includes the techniques (pitching, chipping, putting, sand shots and wood shots) that should enable the intermediate student to play a successful round of golf. Situation analysis, course management and strategy will also be covered.

KINE 117C Advanced Golf: Techniques and Analysis (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An advanced level course teaching skills of golf strokes and application to playing strategies. Emphasis will be on the implementation of learned specialty shots, advanced techniques, statistical performance goals and mental aspects of course management in competition.

KINE 125A Aerobic Fitness Training Modes (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Training in cardio respiratory endurance, as it pertains to exercise programs and/or performance level. Methods to achieve training may include, but are not limited to: aquatics, running, and walking. Emphasis is on pre-testing, post-testing, and the overall development of personal fitness.

KINE 125B Anaerobic Fitness Training Modes (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Training in muscular strength and core fitness as it pertains to exercise programs and/or performance-level anaerobic fitness. Methods to achieve fitness may include, but are not limited to: resistance, isometric, isotonic and core exercise training techniques.

KINE 125C Functional Fitness Training Modes (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Training in functional fitness through exercise specific to individual occupational goals. Methods to achieve training may include, but are not limited to: flexibility, skill training, body and muscle balance and postural improvement.

KINE 125D Motor Fitness/Hand-Eye/Foot Skills (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Training in motor fitness skills including hand-eye and foot skills. Methods to achieve training may include, but are not limited to: speed training, and/or neuromuscular training. Emphasis is on pre-testing, post-testing and overall development of personal fitness.

KINE 128A Wellness Modalities- Cardio (1.00-2.00)
3.00-6.00 hours lab
Transferability: UC/CSU
Grading: Pass/No Pass Only
Cardio-respiratory conditioning through aerobic fitness programs. Activities include treadmill, stair-master, stationary biking, rowing, and elliptical machines. Individualized tests determine the cardio-respiratory conditioning program and the level of performance expected to improve overall health and fitness.

KINE 128B Wellness Modalities-Muscular (1.00-2.00)
3.00-6.00 hours lab
Transferability: UC/CSU
Grading: Pass/No Pass Only
Physical conditioning through individualized resistance training programs. Focus is on muscular strength, muscular endurance and core training. Activities may include, but are not limited to body weight exercises, calisthenics, weight machines, resistance bands, kettle balls, etc.

KINE 128C Wellness Modalities- Functional (1.00-2.00)
3.00-6.00 hours lab
Transferability: UC/CSU
Grading: Pass/No Pass Only
Functional fitness training designed to apply directly to students individual fitness goals. Activities include but are not limited to exercises aimed to assist in performing activities of daily living, sport-specific training, rehabilitative programs, etc. based on the individuals physical abilities and/or physical limitations.

KINE 128D Wellness Modalities- Periodization (1.00-2.00)
3.00-6.00 hours lab
Transferability: UC/CSU
Grading: Pass/No Pass Only
Physical conditioning through the components of physical fitness; cardiorespiratory endurance, muscular strength, muscular endurance and flexibility. Initial fitness measurements determine the conditioning program, level of performance, and planned variations in individualized programs to improve overall fitness.

KINE 135A Beginning Swimming (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Instruction will include basic water safety techniques, proper breathing and arm and leg techniques that apply to the basic swimming strokes such as front crawl, back crawl, and treading water. The use of skill development aids will be introduced.

KINE 135B Intermediate Swimming (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to intermediate swimming strokes including breaststroke and butterfly, starts, and turns. Emphasis is on basic diving and turning techniques and continued skill development and fitness conditioning.

KINE 135C Advanced Swimming (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Designed for the highly skilled, competitive swimmer with an emphasis on principles of advanced training programs including distance, sprint, stroke and conditioning techniques for competition.

KINE 140A Beginning Tennis: Techniques and Analysis (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Focus on the basic elements of the game of tennis for the beginning-level student. Introduces terminology, court areas, scoring and court etiquette. Fundamental techniques for the basic tennis strokes, including ground strokes, service, lob and volley.

KINE 140B Intermediate Tennis: Techniques and Analysis (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Intermediate tennis for competitive play includes covering court etiquette, motorskill development and the introduction of intermediate singles and doubles strategic through competition.

KINE 140C Advanced Tennis: Techniques and Analysis (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Advanced tennis instruction for the highly skilled competitive player. Principles on stroke development, court positioning, serving systems and game strategies associated with singles, competition, doubles competition. Tournament play will be emphasized.

KINE 150A Beginning Weight Training (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is for the beginner level and is designed to emphasize a Total Body Toning Program. Focusing on muscle endurance, strength, flexibility, cardiovascular efficiency, and body composition through weight resistance exercises and conditioning programs.

KINE 150B Intermediate Weight Training- Strength Training for Total Fitness (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is designed for the experienced level student and focuses on the principles of Cross Training for muscular strength development: explores the science and benefits of developing skeletal-muscular and cardiovascular-aerobic fitness via intense exercise with resistive weights equipment.

KINE 150C Advanced Weight Training- Power Lifting and Plyometrics Training (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is designed for the advanced level student and will provide the opportunity, understanding, and appreciation of Power Lift Training through a system of heavy resistance (and low repetition) exercises and Plyometic training that build power in large muscle groups.

KINE 155A Beginning Volleyball: Techniques and Analysis (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Focus on basic skills and fundamentals for individual beginning volleyball students. Includes the development of passing, setting, hitting, serving, conditioning and safety. Emphasis on knowledge of rules and principles of the sport of volleyball.

KINE 155B Intermediate Volleyball: Techniques and Analysis (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Development of volleyball skills for the experienced participant. Emphasis on the execution of individual and team offensive and defensive strategies and communication systems.

KINE 155C Advanced Volleyball: Techniques and Analysis (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Advanced skill work, individual techniques, conditioning and competitive offensive and defensive strategies for the high skilled player.

KINE 166A Beginning Basketball (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Basketball principles, rules, safety, individual techniques, and skill sets. Basic offensive and defensive patterns will be introduced.

KINE 166B Intermediate Basketball (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Basketball techniques, biomechanics, offensive and defensive patterns for the experienced player.

KINE 166C Advanced Basketball (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Advanced Basketball techniques including individual skills and team principles. Sophisticated team play, defensive sets and offensive patterns for the highly skilled participant.

KINE 168A Beginning Soccer (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Focus on the basic skills and individual fundamentals for the beginning soccer student. Includes the development of ball handling, passing, receiving, heading, goalkeeping, defending, conditioning and safety. Emphasis on knowledge of rules and principles of the sport of soccer.

KINE 168B Intermediate Soccer (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Development of soccer skills for the experienced participant.
Emphasis on the execution of individual and team offensive and
defensive strategies and communication systems.

KINE 168C Advanced Soccer (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Advanced skill work, individual techniques, conditioning and
competitive offensive and defensive strategies for the highly skilled
player.

KINE 170A Team Sports - Baseball Strategies (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Instruction in team strategies in the sport of Baseball for the
experienced competitor. Instruction includes individual and team
principles, tactics, and communication systems as they apply to
offensive and defensive strategy.

KINE 170B Team Sports- Baseball Biomechanics (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Biomechanical applications and participation for the experienced
competitor, including individual and team skills and techniques as
they apply to offense and defense in the sport of Baseball.

KINE 170C Team Sports- Basketball Strategies (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Theory, philosophy and strategies for the highly skilled competitor
in the sport of basketball.

KINE 170D Team Sports- Basketball Biomechanics (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Progressive application of biomechanical movement to position
skills through participation in team sports for basketball.

KINE 170E Team Sports- Football Strategies (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Instruction in individual and team theory, philosophy, and
strategies in the sport of Football.

KINE 170F Team Sports- Football Biomechanics (1.00)
0.50 hours lecture - 1.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Progressive application of biomechanical movement to position
skills through participation in team sports for football.

KINE 170G Team Sports- Soccer Strategies (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Instruction in theory, philosophy and strategies in the sport of
Soccer for the experienced competitor.

KINE 170H Team Sports- Soccer Biomechanics (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Focus on individual soccer skills, strength training, conditioning
and biomechanical application of techniques for the highly skilled
competitor. Emphasis on offensive and defensive skills in a team
setting.

KINE 170I Team Sports- Softball Strategies (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Instruction in theory, philosophy and strategies in the sport of
Softball for the highly-skilled competitor.

KINE 170J Team Sports- Softball Biomechanics (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Progressive application of biomechanical movement to position
skills through participation in team sports for softball.

KINE 170O Team Sports- Wrestling Strategies (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Instruction in theory, philosophy, competition strategies and fitness
concepts in the sport of Wrestling for the experienced competitor.

KINE 170P Team Sports- Wrestling Biomechanics (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Biomechanical movement patterns specific to skills and techniques
in wrestling. Training modes and conditioning parameters
necessary for competition will be emphasized.

**KINE 175A Psychology of Specific Athletic Competition -
Contact** (2.00)
2.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Psychological, mental, and physical preparation for the competitive
athlete.

**KINE 175B Psychology of Specific Athletic Competition -
Minimal Contact** (2.00)
2.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Psychological, mental, and physical preparation for the competitive
athlete.

**KINE 175C Psychology of Specific Athletic Competition - Non-
Contact** (2.00)
2.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Psychological, mental, and physical preparation for the competitive
athlete.

**KINE 175D Psychology of Specific Athletic Competition -
Skilled** (2.00)
2.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Psychological, mental, and physical preparation for the competitive
athlete.

KINE 176 Athletic Training (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An overview of the field of sports medicine with an emphasis on the prevention, recognition, evaluation, first aid, and treatment of athletic injuries.

KINE 181A Beginning Adapted Aquatics (1.00)
3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to basic aquatics skills with an emphasis on safety and increasing comfort in an aquatic environment. Skills adapted to the individual student's disability.

KINE 181B Intermediate Adapted Aquatics (1.00)
3.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Emphasis on building aquatic skills, cardiovascular conditioning, strength, balance, and coordination through the use of swim aids and stroke techniques modified for individual student's disability.

KINE 182 Adapted Weight Training (1.00)
3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Resistance activities designed to meet specific needs of the student with a disability. Development and maintenance of a level of strength, flexibility, and cardiovascular endurance in order to facilitate independence of movement and rehabilitation of specific muscle groups.

KINE 184 Adapted Body Conditioning (1.00)
3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Training to increase endurance, flexibility, and strength. Emphasis on individual fitness profile.

KINE 190 Theory of Softball (2.00)
2.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Fastpitch softball rules, playing techniques, coaching strategies, and practice organization.

KINE 196 Theory of Coaching (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Graded Only
This course is an introduction to the profession of coaching. It is designed for students interested in coaching individual and team sports from youth to professional. Areas of concentration will include the role of the coach, developing a coaching philosophy, motivation, time management, leadership, teamwork, ethics, coaching technology, budgeting, fundraising, recruiting and effective coaching practice.

KINE 197 Topics in Physical Education and Kinesiology
(0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Physical Education and Kinesiology. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

KINE 204A Off Season Sports Conditioning I - Aerobic/ Anaerobic Development (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An intensified out-of-season conditioning and strength program for men and women in intercollegiate sports. Varied forms of aerobic and anaerobic strength training will be utilized in an effort to enhance sport specific strength, speed, and endurance conditioning.

KINE 204B Off Season Sports Conditioning II - Motor Skill Development and Application (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An intensified out of season skill development program for men and women in intercollegiate sports. Selected skill and agility exercise will be practiced to enhance quickness, coordination, balance, reaction time and overall motor skill training techniques.

KINE 205A In Season Sports Conditioning I - Aerobic and Anaerobic (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Aerobic and Anaerobic maintenance training program for men and women in intercollegiate sports during season. Sports specific program will consist of cardiovascular, muscular strength and endurance training modes and their application to competition.

KINE 205B In Season Sports Conditioning II - Fine Motor Skills Maintenance (1.00-2.50)
0.50-1.50 hours lecture - 1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Maintenance training program for men and women in intercollegiate sports during season. Proper use of weights will be emphasized. Sports specific agility program, eye hand and foot speed/endurance work, and motor skill efficiency will be enhanced through use of different in season conditioning parameters.

KINE 210 Professional Prep for Football - Theory and Mental Preparation (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Emphasis on rules, individual and team strategies, mental preparation for competition, weekly practice, philosophies, coaching theories and current trends for the sport of Football.

KINE 210L Professional Prep for Football Lab- Biomechanic Application (1.00-1.50)
3.00-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Biomechanical application of fundamental skills with emphasis on strategy, skill development, preparation for competition, weekly practice schedules, and trends for the sport of Football.

KINE 212 Professional Prep for Baseball- Theory and Mental Preparation (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Emphasis on history, rules, individual and team strategies, mental preparation for competition. Practice planning, coaching theories and philosophies and trends in the sport of Baseball.

KINE 212L Professional Prep for Baseball Lab- Biomechanic Application (1.00-1.50)
3.00-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course will focus on the biomechanical application of individual and team Baseball skills, techniques and strategy. Specific drills, communication systems for respective positions and the development of bunting, hitting, pitching and baserunning mechanics will be emphasized.

KINE 215L Professional Prep Wrestling Lab- Biomechanic Application (1.00-1.50)
3.00-4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Biomechanical application of wrestling styles, individual strategy and skill development for competition. Emphasis on pre-match preparation including goal setting and drill progressions.

KINE 229 Lifeguarding (1.50)
1.50 hours lecture
Prerequisite: Ability to swim 500 yards continuously
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Follows American Red Cross curriculum lifeguard training and professional rescuer CPR. National certifications can be earned upon successful completion of two topic areas. An individual will have basic preparation for aquatic lifeguard job opportunities in California.

KINE 295 Directed Study in Physical Education and Kinesiology (1.00-3.00)
3.00-9.00 hours lab
Prerequisite: Approval of project or research by department chairperson/director
Transferability: CSU
Grading: Grade/Pass/No Pass
Independent study for students who have demonstrated skills and/or proficiencies in Physical Education subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

KINE 298 Internship (1.00)
4.00 hours lab
Prerequisite: HE 104
Transferability: CSU
Grading: Pass/No Pass Only
This course is designed to serve students completing the Coaching Certificate of Achievement to gain hands-on work experience in the coaching profession. This supervised internship course a requirement for completion of the coaching certificate program and should be taken upon completion of all other coaching certificate requirements. Sixty hours is required for each unit in an unpaid internship, and seventy five hours is required in a paid internship of your choice within the coaching profession. Supervised coaching internship opportunities may vary from intercollegiate athletic programs, gyms and training facilities, non-profit and interscholastic programs on and/or off campus.
Notes:
This course is designed to serve students completing the Coaching Certificate of Achievement to gain hands-on work experience in the coaching profession. This supervised internship course a requirement for completion of the coaching certificate program and should be taken upon completion of all other coaching certificate requirements. Sixty hours is required for each unit in an unpaid internship, and seventy five hours is required in a paid internship of your choice within the coaching profession. Supervised coaching internship opportunities may vary from intercollegiate athletic programs, gyms and training facilities, non-profit and interscholastic programs on and/or off campus.

LS-Legal Studies

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

LS 121 Introduction to Law (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course provides an overview of the American legal system including its development, structure and history. The course will review the legal and judicial process in the United States covering the common law system, jurisdiction of federal and state courts, and the general process of judicial review. Explanation of different sources of law including statutes, court cases and administrative agency rules. Review of basic legal reasoning and primary authority analysis. Introduction to trial procedure and substantive survey of laws including, but not limited to torts, contract law, criminal law, and property law. Also included is a review of the principles of legal ethics.

LS 145 Legal Ethics (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course provides an introduction to concepts and theories of ethical decision-making, moral conduct, obligation and permission, justice, and responsibility, within the legal profession. Focuses on standards required by the American Bar Association and other professional associations involving legal professionals working in the field of law.

LS 240 Civil Liberties and Procedures (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The study of the Bill of Rights and Supreme Court decisions focusing on civil rights and liberties. This area of constitutional law examines the relationship between individuals and government. Emphasis is on minority issues such as privacy, personal freedom, political equality, and first amendment jurisprudence.

LS 290 Contemporary Legal Issues (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
The seminar will provide an opportunity for in-depth discussion of competing theories of legal interpretation and analysis of the legislative and judicial processes. Each seminar will examine current "hot topics" in more depth. For example, voting rights, partisan gerrymandering, campaign finance, immigration, data privacy, custody and conservatorships, drug policy, and juvenile justice reform may be studied. You will research a developing legal issue and complete a written research paper highlighting the major issues involved, your analysis, and your recommendations.

LT-Library Technology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

LT 100 Introduction to Libraries and Information Services (3.00)

3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Covers the role of Library/Media Technicians (LMTs) in meeting information needs of diverse populations and communities served by the four major types of libraries. The history of libraries, principles of customer service and ethical issues faced by library workers are examined. Duties of LMTs in the areas of Access Services, Collection Services, Information Services, and Technical Services are reviewed in depth. Additional topics include: library funding; job searches, relationship with Librarians, library automation, digital services and continuing education.

LT 105 Research Skills & Informed Learning (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course prepares the student to evaluate, synthesize, and apply information to answer questions or solve problems. Students will engage in a sustained research project and create informative and persuasive materials based on the results of their inquiry. Students will also engage in informed learning by reflecting on the information they use and their research process, preparing them to provide support to library users.

LT 110 Library Operational Skills/Technical Services (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course is an introduction to the principles and practices of technical services including cataloging and acquisitions.

LT 115 Library Operational Skills/Public Services (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course will prepare the student to provide public service in the circulation area of the library. Students will be introduced to principles and practices of customer service, interlibrary loan services, circulation of materials, fines, patron records, supervision, material shelving, maintaining statistics, and building security and emergency procedures.

LT 120 Information Sources and Services/Reference (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course prepares the student to provide assistance in reference services. Students will be introduced to principles and practices of reference interview, reference materials, database searching, online catalogs, Internet searching and evaluation, and bibliographic instruction.

LT 130 Library Media and Technology (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Practical skills and knowledge about technology necessary for library work. Addresses general trends and developments in technology applications for library functions and services. Prepares the student to provide access to and educate the user in the use of technologies and equipment relevant to information seeking, access, and use.

LT 140 Library Services for Children and Young Adults (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Practical use of children's and young adults' materials for readers' advisory, research, and reference service in school library/media centers and public library youth services' departments. Current trends, concerns, and methodology for youth programming and literature activities will be covered.

MACH-Machining Technology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

MACH 117 Blueprint Reading and Geometric Dimensioning and Tolerancing (GD+T) (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Graded Only
This integrated course is tailored to provide students with a comprehensive understanding of Blueprint Reading and Geometric Dimensioning and Tolerancing (GD+T). These essential skills are crucial in drafting, engineering, and manufacturing. This course will equip students with the expertise to interpret blueprints accurately and apply GD+T principles effectively in various industries. These skills are highly valuable in drafting, engineering, manufacturing, and quality control careers. Whether a student is starting their journey in these fields or seeking to enhance their existing knowledge, this course will provide students with a strong foundation in blueprint reading and GD+T, giving them a competitive edge in industry.

MACH 120 Precision Measure and Metrology (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Precision Measuring and Metrology introduces the concepts and vocabulary of basic measuring systems and tools, basic tolerance, print reading, calibration fundamentals, surface measurements, thread inspection, and hole inspection. Students will use the Geometric Dimensioning and Tolerance (GD&T) Matrix to identify and measure features of a part using basic hand measuring techniques and also advanced measuring techniques using Faro Arm, CMM, and Optical Comparator.

MACH 125 Tooling Concepts (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Graded Only
The Tooling Concepts course is an introduction of basic metal removal tools such as drills, endmills, and insert cutters. This course will cover the basics of metal removal concepts, High Speed Steel (HSS) vs. Carbide, while implementing current industry techniques. Students will learn how and when to select the proper tools per application. Course will also cover Safety, Workholding, and Modern Manufacturing concepts.

MACH 190 CNC Machining / MasterCAM I (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
The CNC Machining/MasterCAM I class is an introduction to machining software and machining equipment. Students will translate computer-aided design (CAD) to manufacture parts using computer-aided manufacturing (CAM) on the CNC machine. MasterCAM software and Autodesk 360 will be used to create and manufacture these parts. Students will generate/program G-Code to model their parts, review and evaluate the part, set up the machines, and then run their parts on CNC machines.

MACH 191 CNC Machining MasterCam II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: MACH 190
Transferability: CSU
Grading: Grade/Pass/No Pass
Use 2D and 3D geometry within Cam software (MasterCam) to produce G-code programs for CNC Machines. Students will model, program, set-up and run their parts on various computer controlled mills and lathes.

MACH 228 Metallurgy and Industrial Materials (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Graded Only
Introduction to physical metallurgy and Industrial Materials, oriented towards the machinist, welding , and metal working trades. Covers destructive and non-destructive testing, steel manufacturing and its classification, identification methods, alloy steel, cast and wrought iron, heat treating. Also covering materials such as plastics and carbon fiber.

MATH-Mathematics

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

MATH 1 Support for Exploring Mathematics (0.50)
1.50 hours lab
Corequisite (Course required to be taken concurrently): MATH 100
Grading: Pass/No Pass Only
A review of core prerequisite skills, competencies, and concepts for Exploring Mathematics (Math 100). Designed to provide just-in-time support for students concurrently enrolled in Math 100. Throughout the course, college success content will be integrated with mathematics topics. This course incorporates active learning techniques involving multiple modalities that include individual and/or group active learning projects/activities and/or student presentations.
Notes:
Non-degree Applicable

MATH 11 Support for College Algebra (2.00)
2.00 hours lecture
Corequisite (Course required to be taken concurrently): MATH 110; **Prerequisite:** Eligibility determined through the math placement process.
Grading: Pass/No Pass Only
A review of core prerequisite skills, competencies and concepts for College Algebra. Designed to provide just-in-time support to students concurrently enrolled in Math 110, College Algebra. Throughout the course, college success content will be integrated with mathematical topics. Course includes active learning techniques involving multiple modalities that include individual and/or group active learning projects/activities and/or student presentations.
Notes:
Non-degree Applicable

MATH 13 Support for Calculus for Business and the Social Sciences (2.00)
2.00 hours lecture
Corequisite (Course required to be taken concurrently): MATH 130; **Prerequisite:** Eligibility through the math placement process
Grading: Pass/No Pass Only
A review of the core prerequisite skills, competencies, and concepts for Calculus for Business and the Social Sciences. Intended as just in time support for students who are concurrently enrolled in MATH 130, Calculus for Business and the Social Sciences. Review topics include College Algebra skills and concepts. Throughout the course, college success content will be integrated with mathematical topics. Course includes active learning techniques involving multiple modalities that include individual and/or group active learning projects/activities and/or student presentations.
Notes:
Non-degree Applicable

MATH 14 Support for Quantitative Reasoning (2.00)
2.00 hours lecture
Corequisite (Course required to be taken concurrently): MATH 101
Grading: Pass/No Pass Only
The fundamental skills needed to understand the concepts, formulas and graphs used in Math 101, Quantitative Reasoning, are studied. This course includes operations with and conversions between fractions, decimals and percents. Algebraic reasoning will include working with variables, translating verbal expressions into variable expressions, exponents, square roots, graphing functions in the coordinate plane and solving linear equations. Throughout the course, college success content will be integrated with mathematical topics.
Notes:
Non-degree Applicable

MATH 20 Support for Elementary Statistics (2.00)
2.00 hours lecture
Corequisite (Course required to be taken concurrently): STAT C1000
Grading: Pass/No Pass Only
The core mathematical skills needed to understand the concepts, formulas, and graphs used in transfer-level statistics are studied. This course integrates numeracy, proportional reasoning, algebraic reasoning, and functions. It develops conceptual and procedural tools that support the use of key mathematical concepts in a variety of statistical contexts. Throughout the course, college success content will be integrated with mathematical topics.
Notes:
Non-degree Applicable

MATH 40 Support for Calculus with Analytic Geometry, First Course (2.00)
2.00 hours lecture
Corequisite (Course required to be taken concurrently): MATH 140; **Prerequisite:** Eligibility through the Math Placement process.
Grading: Pass/No Pass Only
A review of the core prerequisite skills, competencies, and concepts for Calculus with Analytic Geometry, First Course. Intended as just in time support for students who are concurrently enrolled in MATH 140, Calculus with Analytic Geometry, First Course. Review topics include College Algebra and Trigonometry skills and concepts. Throughout the course, college success content will be integrated with mathematical topics. Course includes active learning techniques involving multiple modalities that include individual and/or group active learning projects/activities and/or student presentations.

MATH 41 Support for Calculus with Analytic Geometry, Second Course (2.00)
2.00 hours lecture
Corequisite (Course required to be taken concurrently): MATH 141; **Prerequisite:** Eligibility through the Math Placement process.
Grading: Pass/No Pass Only
A review of the core prerequisite skills, competencies, and concepts for Calculus with Analytic Geometry, Second Course. Intended as just in time support for students who are concurrently enrolled in MATH 141, Calculus with Analytic Geometry, Second Course. Review topics include College Algebra, Trigonometry, and Calculus 1 skills and concepts. Throughout the course, college success content will be integrated with mathematical topics. Course includes active learning techniques involving multiple modalities that include individual and/or group active learning projects/activities and/or student presentations.

MATH 97 Mathematics Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Prerequisite: MATH 50; MATH 50B, or eligibility determined through the math placement process
Grading: Grade/Pass/No Pass
Topics in Mathematics. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

MATH 100 Exploring Mathematics (3.00)
3.00 hours lecture
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of PSYC/SOC 205, BUS 204, or any course between MATH 100 and 245 (excluding MATH 197) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Exploration of Mathematics is a liberal arts mathematics survey course designed primarily for students whose programs of study have no further mathematics requirements. Its purpose is to develop an awareness of the use of mathematics in the world around us. Emphasis will be on the communication of mathematical ideas, problem solving, applications, the historical, diverse and cultural nature of mathematics. This course contains the same content as MATH 100E, but does not include more instruction time to help students who can benefit from additional support. Topics are selected from: problem-solving, set theory, logic and reasoning, historical and other bases number systems, number theory, geometry, graph theory, cryptography, counting methods, probability, and statistics. Students who receive credit for MATH 100E may not receive credit for MATH 100.

MATH 100E Exploring Mathematics Enhanced (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of PSYC/SOC 205, BUS 204, or any course between MATH 100 and 245 (excluding MATH 197) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Exploration of Mathematics is a liberal arts mathematics survey course designed primarily for students whose programs of study have no further mathematics requirements. Its purpose is to develop an awareness of the use of mathematics in the world around us. Emphasis will be on the communication of mathematical ideas, problem solving, applications, the historical, diverse and cultural nature of mathematics. This course contains the same content as MATH 100, but includes more instruction time to help students who can benefit from additional support. Topics are selected from: problem-solving, set theory, logic and reasoning, historical and other bases number systems, number theory, geometry, graph theory, cryptography, counting methods, probability, and statistics. A review of prerequisite core concepts and college success content will be integrated throughout the course. Active learning techniques involving multiple modalities that include individual and/or group active learning projects/ activities and/or student presentations will be used. Students who receive credit for MATH 100E may not receive credit for MATH 100.

MATH 101 Practical Math: Quantitative Reasoning (3.00)
3.00 hours lecture
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of PSYC/SOC 205, BUS 204, or any course between MATH 100 and 245 (excluding MATH 197) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Practical Mathematics is a Quantitative Reasoning course intended for liberal arts majors. This course is designed primarily for students whose programs of study have no further mathematics requirements. Its purpose is to develop an understanding of numerical information as it is used in the modern world. The course includes linear and exponential functions to model growth and decay processes and the effect of compounding interest in personal finance situations. Elementary probability theory to calculate the likelihood of events and descriptive statistics will be used to organize and make sense of data sets. Students who receive credit for MATH 101 may not receive credit for MATH 101E.

MATH 101E Practical Math: Quantitative Reasoning Enhanced (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of PSYC/SOC 205, BUS 204, or any course between MATH 100 and 245 (excluding MATH 197) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Practical Mathematics is a Quantitative Reasoning course intended for liberal arts majors. This course is designed primarily for students whose programs of study have no further mathematics requirements. Its purpose is to develop an understanding of numerical information as it is used in the modern world. This course contains the same content as MATH 101, but includes more instruction time to help students who can benefit from additional support. The course includes linear and exponential functions to model growth and decay processes and the effect of compounding interest in personal finance situations. Elementary probability theory to calculate the likelihood of events and descriptive statistics will be used to organize and make sense of data sets. A review of prerequisite core concepts and college success content will be integrated throughout the course. Active learning techniques involving multiple modalities that include individual and/or group active learning projects/activities and/or student presentations will be used. Students who receive credit for MATH 101E may not receive credit for MATH 101.

MATH 105 Concepts of Elementary Mathematics I (3.00)
3.00 hours lecture
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of PSYC/SOC 205, BUS 204, or any course between MATH 100 and 245 (excluding MATH 197) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Selected topics from the real number system including properties and operations with integers and rational numbers as fractions and decimals. Additional topics include problem solving, numeration systems, number theory, and topics in logic and set theory. Recommended for prospective teachers.
Notes:
(UC only) MATH 105 and MATH 106 combined: maximum credit, 1 course

MATH 106 Concepts of Elementary Mathematics II (3.00)
3.00 hours lecture
Prerequisite: MATH 105
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An extension of Mathematics 105, including selected topics from two- and-three dimensional geometry, motion geometry, and measurement. Recommended for prospective elementary and junior high school teachers, parents, and liberal arts students.
Notes:
(UC Only) MATH 105 and MATH 106 combined: maximum credit, 1 course

MATH 110 College Algebra (4.00)
4.00 hours lecture

Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of any course between MATH 110 and 245 (excluding MATH 197, MATH 120, or PSYC/SOC 205, or BUS 204) based on multiple measures.

Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID MATH 151
College Algebra provides the core algebra concepts for STEM and Business students, necessary for Calculus. Topics will include the study of the behavior and characteristics of functions from graphic, numeric, analytic and applied perspectives, including general polynomial functions, rational functions, exponential and logarithmic functions, and sequences. Systems of equations in several variables with an emphasis on matrix solutions. Students who receive credit for MATH 110 may not receive credit for MATH 110E.

Notes:
(UC Only) MATH 110, MATH 126, MATH 127 and MATH 135 combined: maximum credit, 5 semester/7.5 quarter units

MATH 110E College Algebra Enhanced (4.00)
3.00 hours lecture - 3.00 hours lab

Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of any course between MATH 110 and 245 (excluding MATH 197, MATH 120, or PSYC/SOC 205, or BUS 204) based on multiple measures.

Transferability: UC/CSU
Grading: Grade/Pass/No Pass
College Algebra provides the core algebra concepts for STEM and Business students, necessary for Calculus. This course contains the same content as MATH 110, but includes more instruction time to help students who can benefit from additional support. Topics will include the study of the behavior and characteristics of functions from graphic, numeric, analytic and applied perspectives, including general polynomial functions, rational functions, exponential and logarithmic functions, and sequences. Systems of equations in several variables with an emphasis on matrix solutions. A review of prerequisite core concepts and college success content will be integrated throughout the course. Active learning techniques involving multiple modalities that include individual and/or group active learning projects/activities and/or student presentations will be used. Students who receive credit for MATH 110E may not receive credit for MATH 110.

MATH 115 Trigonometry (3.00)
3.00 hours lecture

Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of any course between MATH 110 and 245 (excluding MATH 197, MATH 120, or PSYC/SOC 205, or BUS 204) based on multiple measures.

Transferability: CSU
Grading: Grade/Pass/No Pass
Trigonometry provides the trigonometry concepts for STEM students, necessary for Calculus. Topics will include trigonometric functions and their applications, including emphasis on the analytical aspects, identities, and trigonometric equations. Students who receive credit for MATH 115 may not receive credit for MATH 115E.

MATH 115E Trigonometry Enhanced (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of any course between MATH 110 and 245 (excluding MATH 197, MATH 120, or PSYC/SOC 205, or BUS 204) based on multiple measures.
Transferability: CSU
Grading: Grade/Pass/No Pass
Trigonometry provides the trigonometry concepts for STEM students, necessary for Calculus. This course contains the same content as MATH 115, but includes more instruction time to help students who can benefit from additional support. Topics will include trigonometric functions and their applications, including emphasis on the analytical aspects, identities, and trigonometric equations. A review of prerequisite core concepts and college success content will be integrated throughout the course. Active learning techniques involving multiple modalities that include individual and/or group active learning projects/activities and/or student presentations will be used. Students who receive credit for MATH 115E may not receive credit for MATH 115.

MATH 120* Elementary Statistics
See STAT C1000 Introduction to Statistics

MATH 120E* Elementary Statistics Enhanced
See STAT C1000E Introduction to Statistics

MATH 126 STEM Precalculus I - College Algebra (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of any course between MATH 110 and 245 (excluding MATH 197, MATH 120, or PSYC/SOC 205, or BUS 204) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The first course of a two-semester sequence designed to prepare STEM students for calculus. The course covers advanced algebra topics, including functions and their properties. Focus is on linear, quadratic, polynomial, rational, exponential and logarithmic functions, and systems of equations and inequalities, including rate of change and explicit covariational reasoning to investigate and explore relationships between quantities and how these relationships change. Students solve contextualized problems individually and in teams to gain a deeper understanding of functions and their applications.
Notes:
(UC Only) MATH 110, MATH 126, MATH 127 and MATH 135 combined: maximum credit, 5 semester/7.5 quarter units

MATH 127 STEM Precalculus II - Trigonometry and Analytic Geometry (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: MATH 126; MATH 110, or MATH 110E, or eligibility determined through the math placement process
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The second course in a two-semester sequence designed to prepare STEM students for calculus. This course covers basic concepts of analytic geometry and trigonometry, including definitions and properties of trigonometric functions. Students use multiple representations of functions, rate of change and explicit covariational reasoning to investigate and explore relationships between quantities and how these relationships change. Topics include solutions of applied problems using right triangles, graphs of trigonometric functions, trigonometric identities, trigonometric equations, inverse trigonometric functions, polar coordinates, conics, systems of nonlinear equations and sequences and series. Students model and solve contextualized problems individually and in teams to gain a deeper understanding of analytic geometry, trigonometric functions, and applications.
Notes:
(UC Only) MATH 110, MATH 126, MATH 127 and MATH 135 combined: maximum credit, 5 semester/7.5 quarter units

MATH 130 Calculus for Business and the Social Sciences (4.00)
4.00 hours lecture
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of any course between MATH 110 and 245 (excluding MATH 197, MATH 120, or PSYC/SOC 205, or BUS 204) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID MATH 140
Calculus for Business and the Social Sciences is a calculus course designed for most business majors and some social and behavioral science majors. Topics will include functions and their graphs, including exponential and logarithmic functions, single variable calculus, limits, differentiation, integration and their applications, multivariable calculus, with application to business, social sciences and behavioral science. Students who receive credit for MATH 130E may not receive credit for MATH 130.

MATH 130E Calculus for Business and the Social Sciences Enhanced (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of any course between MATH 110 and 245 (excluding MATH 197, MATH 120, or PSYC/SOC 205, or BUS 204) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Calculus for Business and the Social Sciences is a calculus course designed for most business majors and some social and behavioral science majors. This course contains the same content as MATH 130, but includes more instruction time to help students who can benefit from additional support. Topics will include functions and their graphs, including exponential and logarithmic functions, single variable calculus, limits, differentiation, integration and their applications, multivariable calculus, with application to business, social sciences and behavioral science. A review of prerequisite core concepts and college success content will be integrated throughout the course. Active learning techniques involving multiple modalities that include individual and/or group active learning projects/activities and/or student presentations will be used. Students who receive credit for MATH 130E may not receive credit for MATH 130.

MATH 132E Essentials for Calculus 1 Enhanced (4.00)
3.00 hours lecture - 3.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition): ;
Transferability: CSU
Grading: Grade/Pass/No Pass
Essentials for Calculus 1 Enhanced is an innovative course intended to make your transition to Calculus successful. This course will cover the key topics in Algebra and Trigonometry that are crucial for success in STEM Calculus 1 (Math 140 or Math 140E, calculus with analytic geometry or calculus with analytic geometry enhanced). Students will study functions from graphic, numeric, analytic and applied perspectives, including polynomial, rational, exponential, logarithmic, and trigonometric functions. This course integrates a review of prerequisite core concepts, college success strategies, and mathematical concepts. It utilizes active learning through individual and group projects/activities to engage students in multiple learning styles.
Notes:
Only STEM students with a high school GPA less than 2.6 or have not taken pre-calculus or the equivalent can take this course per the California Community College Chancellor's Office.

MATH 135 Precalculus Mathematics (5.00)
5.00 hours lecture
Prerequisite: MATH 115, or MATH 115E; Non course requisite eligibility determined through the math placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Designed for students who intend to take calculus. Emphasizes study of the behavior and characteristics of functions from graphic, numerical, analytic, and applied perspectives. Includes trigonometric functions, general polynomial functions, rational functions, exponential functions, logarithmic functions, absolute value functions, functions with rational exponents, and sequences. Selected topics from analytic geometry and linear systems are also presented.
Notes:
(UC Only) MATH 110, MATH 126, MATH 127 and MATH 135 combined: maximum credit, 5 semester/7.5 quarter units

MATH 140 Calculus with Analytic Geometry, First Course (5.00)
5.00 hours lecture
Prerequisite: MATH 110, or MATH 110E and MATH 115, or MATH 115E, or MATH 127, or MATH 135, or eligibility determined through the math placement process
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID MATH 211
Calculus with Analytic Geometry, First Course is the first degree applicable course for most STEM majors. Topics will include an introduction to analytic geometry, differentiation and integration of algebraic and transcendental functions of a single variable, and applications of differentiation. Students who receive credit for MATH 140 may not receive credit for MATH 140E.

MATH 140E Calculus with Analytic Geometry, First Course Enhanced (5.00)
4.00 hours lecture - 3.00 hours lab
Prerequisite: MATH 110, or MATH 110E and MATH 115, or MATH 115E, or MATH 127, or MATH 135, or eligibility determined through the math placement process
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID MATH 211
Calculus with Analytic Geometry, First Course is the first degree applicable course for most STEM majors. This course contains the same content as Math 140, but includes more instruction time to help students who can benefit from additional support. Topics will include an introduction to analytic geometry, differentiation and integration of algebraic and transcendental functions of a single variable, and applications of differentiation. A review of prerequisite core concepts and college success content will be integrated throughout the course. Active learning techniques involving multiple modalities that include individual and/or group active learning projects/activities and/or student presentations will be used. Students who receive credit for MATH 140E may not receive credit for MATH 140.

MATH 141 Calculus with Analytic Geometry, Second Course (4.00)
4.00 hours lecture
Prerequisite: MATH 140, or MATH 140E
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID MATH 221
Continuation of MATH 140. Topics include definite integrals and their applications; methods of integration (including the use of modern computational technology as appropriate); indeterminate forms; improper integrals; sequences; infinite series; Taylor series; conic sections; polar coordinate; and parametric equations from analytic, graphic, and numeric perspectives.

MATH 141E Calculus with Analytic Geometry, Second Course Enhanced (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: MATH 140, or MATH 140E
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID MATH 221
Calculus with Analytic Geometry, Second Course is the second degree applicable course following Math 140 or Math 140E for most STEM majors. This course contains the same content as Math 141, but includes more instruction time to help students who can benefit from additional support. Topics include definite integrals and their applications; methods of integration (including the use of modern computational technology as appropriate); indeterminate forms; improper integrals; sequences; infinite series; Taylor series; conic sections; polar coordinate; and parametric equations from analytic, graphic, and numeric perspectives. A review of prerequisite core concepts and college success content will be integrated throughout the course. Active learning techniques involving multiple modalities that include individual and/or group active learning projects/activities and/or student presentations will be used. Students who receive credit for MATH 141 may not receive credit for MATH 141E.

MATH 197 Mathematics Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of any course between MATH 110 and 245 (excluding MATH 197, MATH 120, or PSYC/SOC 205, or BUS 204) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Topics in Mathematics. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

MATH 200 Introduction to Linear Algebra (3.00)
3.00 hours lecture
Prerequisite: MATH 141, or MATH 141E
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID MATH 250
Matrices, determinants, vectors, linear dependence and independence, basis and change of basis, linear transformations, and eigen values.

MATH 205 Calculus with Analytic Geometry, Third Course (4.00)

4.00 hours lecture
Prerequisite: MATH 141, or MATH 141E
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID MATH 230
Vectors in the plane and space, three-dimensional coordinate system and graphing, vector-valued functions and differential geometry, partial differentiation, multiple integration, and vector calculus.

MATH 206 Calculus with Differential Equations (4.00)
4.00 hours lecture
Prerequisite: MATH 205
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID MATH 240
A first course in ordinary differential equations from analytic, geometric, numeric and applied perspectives (including the use of modern computational technology as appropriate). Topics include exact, separable, and linear equations; initial-value and boundary-value problems; systems of first-order equations; reduction of order; undetermined coefficients; variation of parameters; series solutions; and Laplace transforms.

MATH 245 Discrete Mathematics (3.00)
3.00 hours lecture
Prerequisite: MATH 130, or MATH 130E; MATH 140, or MATH 140E and CSCI 112
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The study of prepositional and predicate logic, number theory and methods of proof, elements of set theory, relations and functions, the Pigeonhole Principle, sequences, infinite sets, basic counting techniques, permutations, combinations, graphs and trees, and applications directed to the field of computer science.

MATH 295 Directed Study in Mathematics (1.00-5.00)
1.00-4.00 hours lecture - 0.00-3.00 hours lab
Prerequisite: Approval of the instructor.
Transferability: CSU
Grading: Grade/Pass/No Pass
Designed for the student who has demonstrated a proficiency in mathematics subjects and the initiative to work independently on a particular sustained project which does not fit into the context of regularly scheduled classes.

MCS-Multicultural Studies

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

MCS 100 Introduction to Multicultural Studies (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Social, cultural, and political awareness of diverse national and international systems of thought and multicultural groups as revealed through their social institutions and cultural traditions emanating from family, community and nation - state.

MCS 200 Race, Class, and Ethnic Groups in America (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: SOC 200, AMS 200
This course is designed to introduce the topics of intergroup relations in general to superordinate-subordinate relations in particular, as exemplified in various racial, ethnic, social class, and cultural groups. Emphasis is primarily on contemporary relations in the United States, although a comparative perspective is also offered.

MIL-Military Leadership

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

MIL 100 Military Leadership Communications (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Graded Only
A comprehensive introduction to the study of military leadership communication processes for individual and team success in cross-cultural environments designed for Marine Corps Sergeants.

MIL 101 Military Warfighting Philosophy (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Graded Only
The theory and nature of war, deliberate planning processes, organization of joint warfighting organizations, and the Marine Corps role in decision-making and leadership at the tactical level designed for Marine Corps Sergeants.

MIL 102 Sustaining the Transformation: Marine Corps Customs and Traditions (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Graded Only
Introduction to the proficiency of customs, traditions, orders, programs and behaviors in the Marines and the principles of the Marine Corps Physical Fitness program designed for Marine Corps Sergeants.

MIL 103 Military Leadership Philosophy (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Graded Only
Introduction to the perceptions, cognitions and biases in ethical decision making processes as it pertains to military leadership designed for Marine Corps Sergeants.

MIL 197 Military Leadership: The Professional Warfighter (0.50-6.00)
1.50-18.00 hours lab
Transferability: CSU
Note: May be taken up to 4 times for up to 24.00 total units
Grading: Graded Only
Supervised on-the-job training (OJT) for active duty Marines in the Military Leadership Registered Apprenticeship Program. Students reflect on their own work experience in relation to the nature and theory of war, the Marine Corps' warfighting philosophy, and the impact of their personal leadership on military operations.

MIL 198 Military Leadership: The Sound Decision Maker (0.50-6.00)
1.50-18.00 hours lab
Transferability: CSU
Note: May be taken up to 4 times for up to 24.00 total units
Grading: Graded Only
Supervised on-the-job training (OJT) for active duty Marines in the Military Leadership Registered Apprenticeship Program. Students reflect on their own work experience in relation to the decision-making processes established by Marine Corps doctrine, and the impact of their personal leadership on military organizations and operations.

MIL 199 Military Leadership: The Ethical Leader (0.50-6.00)
1.50-18.00 hours lab
Transferability: CSU
Note: May be taken up to 4 times for up to 24.00 total units
Grading: Graded Only
Supervised on-the-job training (OJT) for active duty Marines in the Military Leadership Registered Apprenticeship Program. Students reflect on their own work experience in relation to Marine Corps values and ethics, and the impact of their personal leadership on unit morale and organizational climate.

MUS-Music

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

MUS 97D Music Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Grading: Grade/Pass/No Pass
Topics in Music. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

MUS 100 Music Appreciation (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A survey course that develops musical listening skills through lectures, discussion, in-class listening to recorded music, and live concert attendance. Stylistic and structural elements, cultural roles of music and musicians, and contributions of technology in Western music are examined through representational works from the earliest notated music to the present.

MUS 101 Survey of 20th Century Music (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Music from the mid-19th Century to the recent avant-garde, with emphasis on understanding the issues and philosophies of modern musical thought.

MUS 102 Introduction to Jazz (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Surveys the historical and musical development of jazz as a unique African American expression from the beginning of slavery in the U.S. to the current global multicultural expression of jazz in the twenty-first century. Emphasis is placed on how racial, socio-economic, and gender relationships between whites, African Americans and Latinos were reflected in and influenced by jazz musicians, and the evolving technological contexts in which jazz has developed. Students become active listeners, and develop culturally relevant aesthetic criteria in contextualizing jazz performances.

MUS 103 Fundamentals of Music (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Training in the fundamentals of music, primarily for the non-music major. The course of study includes a thorough acquaintance with scales, intervals, keys and triads, as well as development in ability to sight read simple melodic material and take simple melodic dictation.

MUS 105 Music Theory I (3.00)
3.00 hours lecture - 1.00 hours lab
Prerequisite: MUS 103, or Demonstrated ability to read music acquired through prior study (i.e. private lessons or AP Music Theory)
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Through guided composition and analysis, this course incorporates the following concepts: rhythm and meter, basic properties of sound, intervals, diatonic scales and triads, diatonic chords, basic cadential formulas and phrase structures, figured bass symbols, dominant seventh chords, non-harmonic tones, and voice leading in 4-part chorale writing. Development of skills in handwritten notation is expected. Includes review of music rudiments. Keyboard component including scales, triads, inversions and chord progressions.

MUS 106 Music Theory II (3.00)
3.00 hours lecture - 1.00 hours lab
Prerequisite: MUS 105; **Corequisite (Course required to be taken concurrently):** MUS 111
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Continuation of MUS 105, extending analysis and written work into all aspects of diatonic harmony, secondary dominants, and elementary modulation. Music literacy is developed through listening and score reading assignments. Required concert attendance.

MUS 110 Music Skills I (1.00)
1.00 hours lecture - 1.00 hours lab
Recommended Preparation: Demonstrated ability to read music acquired through prior study (i.e. private lessons or AP Music Theory); **Corequisite (Course required to be taken concurrently):** MUS 105
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Melodic and rhythmic sight-reading and dictation. Required concert attendance. Required for students with a major in music.

MUS 111 Music Skills II (1.00)
1.00 hours lecture - 1.00 hours lab
Prerequisite: MUS 110
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Continuation of MUS 110 and harmonic dictation. Required concert attendance. Required for students with a major in music.

MUS 115 Basic Keyboard I (0.50)
2.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 99.00 total units
Grading: Grade/Pass/No Pass
An introduction to the keyboard through the study of notation, basic hand positions, and chord formations.

MUS 116 Accelerated Basic Keyboard (1.00)
3.00 hours lab
Prerequisite: Ability to read music in treble and bass clefs.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Accelerated class for the beginning keyboard student. Required of all students with a major in music and for music credential candidates.

MUS 117 Basic Keyboard II (0.50)
2.00 hours lab
Prerequisite: MUS 115; the passing of equivalency test
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 99.00 total units
Grading: Grade/Pass/No Pass
Keyboard experience through the further study of notation, scales, and chord progressions. Sight reading and improvisation.

MUS 119 Piano Skills I (0.50)
2.00 hours lab
Prerequisite: MUS 117; the passing of equivalency test
Transferability: UC/CSU
Note: May be taken up to 2 times for up to 99.00 total units
Grading: Grade/Pass/No Pass
Piano techniques including scales and arpeggios, sight reading, and ensemble playing. Required of all music majors and for credential candidates.

MUS 130 Fundamental Vocal Skills (0.50)
2.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to the basics of singing. Includes proper breath control and posture, practice techniques, diction and performance of simple song literature.

MUS 131 Vocal Literature and Performance (0.50)
2.00 hours lab
Prerequisite: MUS 130
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Establishment of a basic repertoire for the singer. Rehearsal and performance of folk songs, musical theater, and Italian, German, French, and English art songs.

MUS 137 Cuban and Brazilian Drumming I (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: DNCE 137
Drum, percussion and song classes in the traditions of Escola de Samba from Rio de Janeiro, Brazil and Afro-Cuban traditions, popular and folkloric; Rumba, Congo (Makuta/Palo), Franco/Haitian (Gaga/Congo Layet)from East and West Cuba. Develop ability to work as a drum ensemble.

MUS 138 Cuban and Brazilian Drumming II (0.50-1.00)
1.50-3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: DNCE 138
Intermediate drum, percussion and song classes in the traditions of Escola de Samba from Rio de Janeiro, Brazil and Afro-Cuban traditions, popular and folkloric; Rumba, Congo (Makuta/Palo), Franco/Haitian (Gaga/Congo Layet)from East and West Cuba. Develop ability to work as a drum ensemble.

MUS 148 Palomar Chorale (1.00)
3.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition): MUS 130, Mus 131, MUS 149
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Rehearsal and performance of standard oratorio and choral literature. Attendance at all scheduled performances is required.

MUS 150 Musical Theatre - Vocal (0.50-1.00)
1.50-3.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition):
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Rehearsal and performance of musical theatre literature. Attendance at all scheduled rehearsals and productions is required.

MUS 151 Concert Band (1.00)
3.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition): MUS 155, MUS 152, MUS 172, MUS 175, MUS 198
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Study, rehearsal, and performance of standard concert band music.

MUS 152 Jazz Ensemble (1.00)
3.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition): MUS 103, MUS 151, MUS 115; **Prerequisite:**
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Rehearsal and performance of standard stage band literature. Opportunities for students to arrange and compose for the band and rehearse the ensemble. Attendance at all scheduled performances is required.

MUS 155 Chamber Ensemble - Brass (1.00)
3.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition): MUS 151, MUS 152, MUS 172, MUS 175, MUS 198
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Rehearsal and performance of chamber music literature for brass.

MUS 158 Chamber Singers (0.50-1.00)
1.50-3.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition): MUS 130, MUS 131, MUS 103
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Rehearsal and performance of chamber music for voices.

MUS 159 Musical Theatre Orchestra (0.50-1.00)
1.50-3.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition):
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Rehearsal and performance of musical theatre literature. Attendance at all scheduled productions is required.

MUS 161 Summer Concert Band (0.50)
1.50 hours lab
Prerequisite: Ability to perform on one or more instruments
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 2.00 total units
Grading: Grade/Pass/No Pass
Study, rehearsal and performance of standard concert band music.

MUS 169 History of Rock Music (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Overview of rock and popular musical styles from the early 1950s to the present. Coverage includes related social and cultural trends, outstanding artists, the influence of technology on popular music, and relevant trends in the music industry. Basic musical concepts such as pitch, rhythm and form will be introduced and applied to the music under consideration.

MUS 171 World Music (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A survey of world music including North American Indian, Mexico, India, Japan, Indonesia, Middle East, China, Africa, and South America, with emphasis on understanding the cultural background, instruments, musical characteristics and the impact of world music on the 20th century culture.

MUS 172 Repertory Jazz Ensemble (1.00)
3.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition): MUS 152, MUS 151, MUS 103
Transferability: CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Study and preparation of professional level materials for the large jazz ensemble.

MUS 173 Musical Theatre Scenes I (1.00)
3.00 hours lab
Transferability: CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Cross listed as: TA 173, DNCE 173
Rehearsal and performance of solo and group scenes from Broadway musicals dating from the 1930's to the present.

MUS 174 Musical Theatre Scenes II (1.00)
3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: DNCE 174, TA 174
A continuation of Musical Theatre Scenes I. A deeper exploration into the acting, singing, and dancing necessary for Broadway Musicals from the 1930's to present.

MUS 175 Beginning Guitar (0.50)
2.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introduction to the fingerboard through the study of notation, basic hand positions, and chord formations.

MUS 176 Intermediate Guitar (0.50)
2.00 hours lab
Prerequisite: MUS 175
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A continuation of MUS 175 with a more in-depth study of the classical, flamenco, blues, and jazz styles. Theory, technique, and interpretation will be thoroughly explored.

MUS 178 Classical Guitar (1.00)
3.00 hours lab
Recommended Preparation: MUS 175; **Limitation on Enrollment (e.g. Performance tryout or audition):** MUS 175
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Guitar techniques in the classical style, with emphasis on sight reading and ensemble playing as well as performance of guitar literature from the Renaissance through the early 20th Century.

MUS 180 Computer Music I (3.00)
3.00 hours lecture
Prerequisite: ARTI 246, or GCMW 204, or MUS 103, or MUS 115
Transferability: CSU
Grading: Grade/Pass/No Pass
This course is designed to give students an understanding of basic computer music application including sound design, MIDI, and music notation software.

MUS 181 Computer Music II (3.00)
3.00 hours lecture
Prerequisite: (Completion of, or concurrent enrollment in): MUS 180
Transferability: CSU
Grading: Grade/Pass/No Pass
An overview of digital audio techniques. Topic in sound synthesis, sound design, and sampling.

MUS 182 Introduction to Arts Management (3.00)
9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: DNCE 182, AMS 182, ART 182, TA 182
An introduction to the principles and practices of arts management through an interdisciplinary study of management topics in the visual and performing arts.

MUS 183 Internship in Arts Management (3.00)
9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: DNCE 183, ART 183, TA 183, AMS 183
Practical experience in arts management in the visual and performing arts.

MUS 184 Electronic Ensemble (1.00)
3.00 hours lab
Prerequisite: MUS 103
Transferability: UC/CSU
Note: May be taken up to 3 times for up to 3.00 total units
Grading: Grade/Pass/No Pass
Instruction in music technology, composition, and performance. Students will compose and participate in performances of original works for electronic, computer, and acoustic instruments. Assignments and performances will be both individual and collaborative. Group, or ensemble, compositions and performances are part of this course.

MUS 187 Computer Music Composition (1.00)
3.00 hours lab
Prerequisite: MUS 103; MUS 115, or MUS 180 and MUS 181
Transferability: CSU
Grading: Grade/Pass/No Pass
Focus is on individual music compositions. Instruction will include, but is not limited to, computer music software and hardware overviews. Includes composition and notation techniques, music analysis, detailed work on specific software applications, music publishing information, and rehearsal and part preparation. Students may also take this in conjunction with computer music classes in order to receive further tutelage with that class material.

MUS 197 Topics in Music (0.50-3.00)
0.50-3.00 hours lecture - 1.50-9.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Workshops in various special topics in music.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. May be transferable to UC upon UC's review of the course syllabus.

MUS 198 Palomar Symphony Orchestra (1.00)
3.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition): MUS 103, MUS 151, MUS 130, MUS 131, MUS 175
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Study, rehearsal, and performance of a wide variety of orchestral literature from the Baroque, Classical, Romantic, and 20th Century styles. Attendance at all scheduled performances is required.

MUS 210 Advanced Harmony (3.00)
3.00 hours lecture - 1.00 hours lab
Prerequisite: MUS 106; **Corequisite (Course required to be taken concurrently):** MUS 215
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Analysis and written work in altered chords, chromatic harmony, modulation, structural form (sonata-allegro), and 20th Century developments. Required concert attendance.

MUS 211 Counterpoint (3.00)
3.00 hours lecture - 1.00 hours lab
Prerequisite: MUS 210; **Corequisite (Course required to be taken concurrently):** MUS 216
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Analysis and written work in two and three-voice counterpoint in the 18th Century style (invention, fugue). Required concert attendance.

MUS 215 Music Skills III (1.00)
1.00 hours lecture - 1.00 hours lab
Prerequisite: MUS 111; **Corequisite (Course required to be taken concurrently):** MUS 210
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Continuation of MUS 111 and four part harmonic dictation. Introduction to chromatic dictation. Required for students with a major in music.

MUS 216 Music Skills IV (1.00)
1.00 hours lecture - 1.00 hours lab
Prerequisite: MUS 215; **Corequisite (Course required to be taken concurrently):** MUS 211
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Continuation of MUS 215 and contrapuntal dictation. Required for students with a major in music, but open to all students.

MUS 220 Applied Music (1.00)
1.00 hours lecture
Corequisite (Course required to be taken concurrently): MUS 222; MUS 134 and MUS 143, or MUS 147, or MUS 148, or MUS 149, or MUS 150, or MUS 151, or MUS 152, or MUS 155, or MUS 157, or MUS 158, or MUS 159, or MUS 172, or MUS 184, or MUS 198, or
Limitation on Enrollment (e.g. Performance tryout or audition): MUS 133-158, 178, 180, 181, 184, 187, 198, and 222.
Transferability: UC/CSU
Note: May be taken up to 2 times for up to 2.00 total units
Grading: Grade/Pass/No Pass
Individual lessons with music instructor developing basic techniques in applied music. Student is required to practice on campus, be concurrently enrolled in a music ensemble, participate in Performance Studies class, and perform for music juries at the conclusion of the semester.

MUS 222 Performance Studies (0.50)
2.00 hours lab
Corequisite (Course required to be taken concurrently): MUS 220
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 2.00 total units
Grading: Grade/Pass/No Pass
A combination of private studio instruction in instrument or voice with an off-campus instructor, plus on-campus training in performance skills. Required conditions: 1. Fourteen clock hours of instruction with a private instructor and adequate practice time are required. 2. At the end of the semester the student will be required to perform for the Music Faculty. 3. Student should have necessary skills and technique on chosen instrument to begin training in public performance. a. Piano b. Harpsichord c. Organ d. Voice e. Flute f. Oboe g. Clarinet h. Saxophone i. Bassoon j. French Horn k. Trumpet l. Trombone m. Baritone n. Tuba o. Percussion p. Violin q. Viola r. Cello s. Contrabass t. Harp u. Classical Guitar v. Classical Accordion w. Studio Guitar

MUS 224 Introduction to Jazz Piano (0.50)
2.00 hours lab
Prerequisite: MUS 117, or the passing of equivalency test
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Provides students with a practical knowledge and proficiency in concepts pertaining to jazz piano, including reading chord symbols, chord voicings, stylistically appropriate accompaniment, and improvising in a jazz and/or pop music idiom.

MUS 225 Piano Skills II (0.50)
2.00 hours lab
Prerequisite: MUS 119; the passing of equivalency test
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Continuation of piano techniques, with emphasis on improvised accompaniments, sight reading, ensemble playing, pedaling, and practice techniques.

MUS 251 Master Class in Keyboard Literature, Analysis and Performance (0.50-3.00)
0.50-3.00 hours lecture
Prerequisite: MUS 225; the passing of equivalency test
Transferability: CSU
Grading: Grade/Pass/No Pass
Survey of keyboard literature presented in a master class format. Analysis of styles and techniques of solo and ensemble performances.

MUS 280 Music Composition Workshop I (1.00)
3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in):
MUS 105
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Survey of contemporary techniques in music composition, music notation and contemporary literature. Short compositions in workshop setting for beginning composers.

MUS 281 Music Composition Workshop 2 (1.00)
3.00 hours lab
Prerequisite: MUS 280
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Focus on contemporary techniques in music composition, music notation and contemporary literature. Students create compositions in a workshop setting. This course is for intermediate level composers.

MUS 283 Musical Theatre Scenes III (1.00)
3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: DNCE 283
A continuation of Musical Theatre scenes II with emphasis on more advanced acting, singing and dance techniques.

MUS 284 Musical Theatre Scenes IV (1.00)
3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: DNCE 284
Exploring the rehearsing and performing of Musical Theatre acting, singing, and dancing at the advanced level.

N ABED-Adult Basic Education

N ABED 901 Literacy/Adult Basic Education I
60.00-192.00 hours lecture
Grading: Not Graded
This course is designed to help learners to improve basic reading and writing skills, basic arithmetic computational skills, and critical thinking skills; to develop skills for the workplace; and to prepare for future educational opportunities. Learners participate in an individually prescribed program which includes classroom activities, independent activities, collaborative learning, and mediated learning. Course 1 of 2 in the Adult Basic Education Certificate of Completion.

N ABED 902 Literacy/Adult Basic Education II
60.00-192.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
This course is designed to help learners to improve reading and writing skills, computational skills, critical thinking skills; to develop basic computer skills; to develop skills for the workplace; and to prepare for future educational opportunities. Learners participate in an individually prescribed program which includes classrooms activities, independent activities, collaborative learning, and mediated learning. N ABED 902 is the capstone course for the Adult Basic Education Certificate of Completion.

N AEWP-Adult Education Workforce Preparation

N AEWP 901 Foundations of Lifelong Wellness
48.00-54.00 hours lecture
Note: May be taken up to 4 times
Grading: Pass/No Pass/Satisfactory Progress
This course is one of six classes required for the non-credit Pre-Vocational Certificate of Completion. It covers skills and competencies relevant to living and working independently. Strategies for goal setting, time management and organization, basic costs and budgeting, cooperative living, problem-solving, personal hygiene, home care, and home safety will be covered.

N AEWP 902 Practical Living Skills
48.00-54.00 hours lecture
Note: May be taken up to 4 times
Grading: Pass/No Pass/Satisfactory Progress
This course is one of six classes required for the non-credit Pre-Vocational Certificate of Completion. It explores how physical, mental, and emotional wellness contribute to overall well-being and promote longevity. Students will learn how to identify stressors in their lives and practice healthy stress management techniques.

N AEWP 903 Interpersonal Relationships and Communication
48.00-54.00 hours lecture
Note: May be taken up to 4 times
Grading: Pass/No Pass/Satisfactory Progress
This course is one of six classes required for the Pre-Vocational Certificate of Completion. It provides strategies and skills to help students develop and improve healthy relationship skills necessary for success in the college environment, workplace, and independent living situations.

N AEWP 904 Self-Advocacy and Personal Safety
48.00-54.00 hours lecture
Note: May be taken up to 4 times
Grading: Pass/No Pass/Satisfactory Progress
This course is one of six classes required for the Pre-Vocational Certificate of Completion. The course helps students develop self-advocacy skills in the home, community, and workplace. Emphasis is placed on identifying and effectively communicating needs. Students will conduct a personal self-evaluation, learn to identify resources to enhance decision-making, practice goal-setting, and develop effective communication skills with various individuals. Personal safety awareness is developed with an emphasis on proactive steps to avoid dangerous situations at home, online, in the workplace, and in the community.

N AEWP 905 Critical Thinking and Problem Solving
48.00-54.00 hours lecture
Note: May be taken up to 4 times
Grading: Pass/No Pass/Satisfactory Progress
This course is one of six courses required for the Pre-Vocational Certificate of Completion. It develops students' ability to think critically and solve problems effectively in personal and professional contexts. Emphasis is placed on problem-solving and decision-making through identifying problems, examining cause-and-effect relationships, evaluating options, and planning and implementing strategies.

N AEWP 906 Basic Computer Skills
48.00-54.00 hours lecture
Note: May be taken up to 4 times
Grading: Pass/No Pass/Satisfactory Progress
This course is one of six courses required for the Pre-Vocational Certificate of Completion. It is designed for students seeking foundational computer skills to support their academic, personal, and employment-related activities. Topics include basic computer navigation, using word processing software, internet browsing, email communication, file management, and use of adaptive equipment.

N AEWP 910 Noncredit Work Experience
48.00-54.00 hours lab
Grading: Pass/No Pass Only
In this course, learners will advance their education and career goals through structured work experience. With the support of a faculty member, learners will develop new skills, improve existing skills, and relate those skills to specific achievements. Learners will also evaluate their current work experience to draw connections to future education and career goals. This course will afford students the opportunity to consider how their work reflects their values and interests and how they balance work with other priorities in their lives. To take the course, learners will need to have a current job or internship. Students need to complete 54 hours of work experience per unit of credit. Please contact the Cooperative Education Department with questions and for assistance.

N AP PRE-Noncredit Pre-Apprenticeship

N AP PRE 901 Introduction to the Construction Trades Industry

25.00-54.00 hours lecture - 20.00-40.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
This course provides participants an introduction to the construction trades industry, with specific emphasis on the electrical industry, sheet metal industry, and carpentry, as a basis for working in all other trades. After successful completion, participants will have general knowledge and skills needed to choose and prepare for advanced training in the pre-apprenticeship program and then to seek further knowledge in a state-approved apprenticeship program.

N AP PRE 902 OSHA 10 Certification
10.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
OSHA 10-Hour Construction is a part of an online OSHA outreach program that results in a valid DOL/OSHA 10-Hour Card. This OSHA10 online training course teaches recognition, avoidance, abatement and prevention of safety and health hazards in workplaces. This course also provides information regarding workers' rights, employer responsibilities and how to file a complaint. It was also designed to help workers stay up-to-date with their OSHA safety requirements.

N AP PRE 903 Red Cross Adult First Aid/CPR/AED
5.00-7.00 hours lecture - 5.00-7.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
This course will prepare students to recognize and care for a variety of first aid, breathing, and cardiac emergencies involving adults and meets OSHA/workplace requirements. These courses are designed for anyone with little or no medical training who needs a course completion card (CPR/AED First Aid) for job, regulatory (e.g., OSHA), or other requirements. These courses can also be taken by anyone who wants to be prepared for an emergency in any setting. After completing the online portion, students will attend a structured, Instructor-led, hands-on session that focuses on meaningful coaching, skills practice, and skills testing. This course will prepare you to recognize and care for a variety of first aid, breathing, and cardiac emergencies involving adults and meets OSHA/workplace requirements.

N AP PRE 906 Essential Skills
8.00 hours lecture - 8.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
Essential skills will address the following competencies as keys to the success of workers: Communication; Networking; Enthusiasm and Attitude; Teamwork; Problem Solving and Critical Thinking; and Professionalism.

N AP PRE 908 Construction Math
48.00-54.00 hours lecture - 16.00-18.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
This course provides the participants with an overview of the mathematics used in the industry. These include but are not limited to: basic arithmetic operations, integers, fractions, decimals, percents, ratio and proportion, basic geometric concepts and measurement, problem-solving techniques, and an introduction to algebraic thinking.

N AP PRE 909 Construction Print Reading
6.00-16.00 hours lecture - 6.00-16.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
This course will cover the fundamental functions and structure of construction prints. Course content will include construction drawings, line symbols, freehand sketching, and pictorial drawings.

N AP PRE 910 Tools
24.00 hours lecture - 24.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
This course provides the participants with an overview of measuring, marking, layout, hand, power, and fastening tool use and safety considerations when using these tools.

N AP PRE 920 Carpentry - Hands On Skills
10.00-24.00 hours lecture - 15.00-72.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
Carpentry Hand Skills continues where N-AP-PRE 901 left off in carpentry topics. This course will review carpentry trade skills and develop advanced skills in carpentry trades with the use of project based learning.

N AP PRE 930 Electrician - Hands On Skills
20.00-30.00 hours lecture - 15.00-30.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
Introduction to the electrical industry, with emphasis on jobsite safety, basic conduit bending, National Electric Code (NEC), sexual harassment, introduction to blueprints, tools and their use. Particular attention will be given to fastening devices, basic mathematics, resistance, voltage, power in DC series, parallel, and combination circuits.

N AP PRE 940 Sheet Metal - Hands On Skills
15.00-30.00 hours lecture - 15.00-20.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
This course provides an introduction to the basic principles, processes, drawings and materials used in the sheet metal industry.

N ART-Noncredit Art

N ART 906 Life Painting for Older Adults
24.00 hours lecture - 72.00 hours lab
Grading: Not Graded
This course examines the use of oil, acrylic or watercolor in modeling the human form. Particular attention will be placed on color mixing, drawing and paint application. This non-credit course is designed to provide older adults with ongoing opportunities to maintain their mental and artistic dexterity.

N ART 920 Foundations of Life Drawing for Older Adults
24.00 hours lecture - 72.00 hours lab
Grading: Not Graded
Introduction to drawing the human figure from observation using a wide variety of drawing media and techniques. Topics include an introduction to human anatomy and the historical and contemporary roles of figure drawing in the visual arts. Students in this course will learn both descriptive and interpretive approaches to drawing the figure. This non-credit course is designed to provide older adults with ongoing opportunities to maintain their mental and artistic dexterity.

N ART 921 Intermediate Life Drawing for Older Adults
24.00 hours lecture - 72.00 hours lab
Grading: Not Graded
An advanced investigation of the human figure as the primary subject of composition in historical and contemporary art. Developed for the advanced painting or illustration majors to aid in the preparation of entry portfolios required for admittance to specialized private four-year institutions. This non-credit course is designed to provide older adults with ongoing opportunities to maintain their mental and artistic dexterity.

N ART 925 Introduction to Portraiture for Older Adults
24.00 hours lecture - 72.00 hours lab
Grading: Not Graded
Introduction to portraiture. Special emphasis is placed on the historical and contemporary role of portraiture in art. Techniques range from traditional approaches to expressive application of drawing and painting media. This non-credit course is designed to provide older adults with ongoing opportunities to maintain their mental and artistic dexterity.

N ART 951 Advanced Ceramic Techniques for Older Adults
24.00-27.00 hours lecture - 72.00-81.00 hours lab
Grading: Not Graded
This course will cover advanced techniques of hand building and wheel working with clay as well as a broad range of glazing and firing processes, helping to maintain physical dexterity and mental acuity for older adults.

N ART 956 Advanced Foundry Techniques in Sculpture for Older Adults
24.00-27.00 hours lecture - 72.00-81.00 hours lab
Grading: Not Graded
Course will provide older adult students with the opportunity to refine practices in mold making and metal casting, including project proposals and economics, experimental and production based casting techniques, patina and finishing skills.

N ART 971 Advanced Jewelry and Metal Smithing for Older Adults
24.00-27.00 hours lecture - 72.00-81.00 hours lab
Grading: Not Graded
Course will provide older adult students with the opportunity to develop and refine advanced techniques in jewelry and metal smithing practice.

N ART 975 Stained Glass for Older Adults
16.00-18.00 hours lecture - 32.00-36.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
This course will cover a range of two- and three-dimensional approaches to working in stained glass from design to construction, serving as a means for older adults to engage creativity, and maintain dexterity and mental acuity.

N ART 978 Glass Casting for Older Adults
18.00 hours lecture - 36.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
This course will cover a range of approaches to kiln-formed glass, from fusing and slumping to kiln casting. The technical and artistic approaches in design and execution will serve as a means for older adults to engage creativity, and maintain dexterity and mental acuity.

N BASC-Basic Education

N BASC 900 Literacy/Adult Basic Education
64.00-96.00 hours lecture
Grading: Not Graded
This course is designed to help learners improve basic reading skills, critical thinking skills, computational skills, and writing skills; to develop skills for the workplace; and to prepare for future educational opportunities. Learners participate in an individually prescribed program which includes classroom activities, independent activities, collaborative learning, and mediated learning.

N BASC 901 Algebra Review
12.00-16.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
Review of topics, skills and problem solving techniques from prealgebra, beginning algebra, intermediate algebra, college algebra and/or trigonometry based on individual student needs as determined by diagnostic tests. Intended for students who need to refresh their algebra and/or prealgebra skills prior to taking their next math class or to improve their math placement level on the math assessment test. Review concepts and problem solving techniques from beginning algebra, with emphasis on basic operations with signed number polynomials and linear functions.

N BASC 902 Supervised Tutoring
64.00-96.00 hours lab
Grading: Not Graded
This course provides supplemental instruction in academic subjects for individual students to improve their knowledge or abilities in the tutored subject.

N BASC 903 Supervised Tutoring for Access Technology
8.00-72.00 hours lab
Grading: Not Graded
This course provides supplemental instruction for individual students to improve their knowledge and abilities with access technology. Learners participate in a program which includes lab activities, independent activities and tutor-assisted learning.

N BASC 904 Supervised Tutoring
64.00-96.00 hours lab
Grading: Not Graded
This course provides supplemental instruction for individual students to improve their knowledge and abilities. Learners participate in a program which includes classroom and lab activities, independent activities, collaborative learning, mediated learning and tutor-assisted learning.

N BMGT-Noncredit Business Management

N BMGT 986 Introduction to Project Management
48.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
This course introduces students to the principles, tools, and techniques of project management. Students will learn the fundamental concepts of project management, including project initiation, planning, execution, monitoring, controlling, and closing. Emphasis will be placed on the use of project management methodologies with practical examples and case studies across various industries.

N BMGT 987 Intermediate Project Management
48.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
This course builds on the foundational concepts introduced in "Introduction to Project Management," delving deeper into advanced project management methodologies, tools, and techniques. Students will explore intermediate project scenarios, advanced risk management, and multi-project environments. The course emphasizes strategic project management, leadership skills, and the continued use of project management software. Practical applications will include case studies and a capstone project.

N BMGT 988 PMP/CAPM Exam Preparation
48.00 hours lecture
Prerequisite: STAT C1000, or STAT C1000E
Grading: Pass/No Pass/Satisfactory Progress
This course offers an intense review of the Project Management Body of Knowledge (PMBOK) for purposes of preparing for one of the Project Management certification exams. This course is a review of key knowledge areas and processes, and is intended for individuals who have experience in the field of project management or who have completed PM specific course work.

N BUS-Noncredit Business

N BUS 972 Word Workshop for Older Adults
8.00-32.00 hours lecture
Grading: Not Graded
Word Essentials. Create, format, save, and print your first documents the right way.

N CSIT-Noncredit Computer Science Information Technology

N CSIT 900 Digital Literacy - Computer Fundamentals for Older Adults
24.00-48.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
Designed for older adults, this course teaches students to make the most of technology. The course covers computer hardware, software, operating systems, peripherals, and troubleshooting. Mobile Device and Cloud Computing concepts are also explored.

N CTED-Career and Technical Education

N CTED 901 Community Emergency Response Team
24.00-30.00 hours lecture
Grading: Not Graded
Provides instruction and basic skills to private citizens which enable them to assist first responders and other community members in the aftermath of a disaster.

N CTED 905 Basic Tutoring Training and Certification
20.00-32.00 hours lab
Grading: Not Graded
This course will teach college students to tutor other college students through lectures, discussions, video tapes, and practical experience.

N CTZN-Citizenship

N CTZN 900 Citizenship
16.00-48.00 hours lecture
Grading: Not Graded
A general survey of U.S. history, government and civics, including culture, institutions, and use of community services and agencies. Designed to assist eligible individuals to become United States citizens. Includes practice of oral/aural/literacy skills in English necessary to pass an oral and written test with a United States Citizenship and Immigration Services official.

N ESL-English as a Second Language

N ESL 901 Beginning ESL I
48.00-192.00 hours lecture
Grading: Not Graded
Listening, speaking, reading, and writing skills for non-native speakers of English at the low-beginning level.

N ESL 902 Beginning ESL II
48.00-192.00 hours lecture
Grading: Not Graded
Listening, speaking, reading, and writing skills for non-native speakers of English at the mid-beginning level.

N ESL 903 Beginning ESL III
48.00-192.00 hours lecture
Grading: Not Graded
Listening, speaking, reading, and writing skills for non-native speakers of English at the high-beginning level.

N ESL 904 Intermediate ESL I
48.00-192.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
Listening, speaking, reading, and writing skills for non-native speakers of English at the low-intermediate level.

N ESL 909 English Pronunciation I
48.00-54.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
Development of students' ability to identify and replicate English intonation, stress patterns, and certain common word combinations as they are pronounced in informal speech.

N ESL 910 English Pronunciation II
48.00-54.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
Identifies spoken American English intonation, stress and rhythm patterns. Provides practice in producing English sounds and patterns. Emphasis is on clear speech, self-correction and listening to varied pronunciations of English.

N ESL 912 ESL Grammar Skills I
48.00-54.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
Instruction in editing of written material by applying basic conventions of standard written English.

N ESL 913 ESL Grammar Skills II
48.00-54.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
Instruction in editing of written material by applying conventions of standard written English.

N ESL 914 ESL Grammar Skills III
48.00-54.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
Instruction in editing of written material by applying advanced conventions of standard written English.

N ESL 920 Academic Speaking and Listening
48.00-54.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
Develops speaking and listening skills necessary for non-native speakers of English to be successful in the college environment. This class emphasizes linguistic and interpersonal skills in order for participation in discussions and performance of tasks in personal, academic, and formal or informal situations. Vocabulary, conversation strategies, presentation techniques, and strategies for note-taking and listening for main ideas and details are introduced within interesting and meaningful contexts.

N ESL 922 Beginning Conversation 1
30.00-72.00 hours lecture
Grading: Not Graded
Conversation skills for non-native speakers of English at the mid- and high-beginning level. This course focuses on the practice of speaking and listening skills in conversations with everyday, familiar topics.

N ESL 923 Beginning Conversation 2
30.00-72.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
Conversation skills for non-native speakers of English at the high-beginning and low intermediate level. This course focuses on the practice of initiating and sustaining conversations about different topics.

N ESL 931 Academic Reading for Non-Native Speakers
56.00 hours lecture
Recommended Preparation: N READ 950
Grading: Pass/No Pass/Satisfactory Progress
This course is designed to improve the reading skills of non-native English speakers. This course's emphasis is on increased comprehension of college-level fiction and non-fiction, making inferences based on texts, synthesizing material from several texts, evaluating written arguments, differentiating facts from opinions, and demonstrating study skills related to reading that would help a student manage a college reading load.

N ESL 941 Academic ESL Review
48.00-96.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
Designed to help ESL learners improve their academic reading and writing skills and review basic academic grammar and vocabulary. Emphasizes student success strategies and study skills that will help students be successful in their learning. The course is an academic ESL reading and writing skills development/refresher course.

N ESL 945 Reading and Writing Essentials I
80.00-90.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
A beginning course in reading and writing academic English for students whose first language is not English. Offers instruction in reading skills, basic grammar usage, paragraph organization and development, and appropriate basic vocabulary for academic reading and writing.

N ESL 961 Beginning Level Listening and Speaking I
32.00-80.00 hours lecture
Grading: Not Graded
Listening and speaking for non-native speakers of English at the low-beginning level. This course is designed for students who have little or no ability in English. Topics to be covered include school, shopping, and work.

N ESL 962 Beginning Level Listening and Speaking II
32.00-80.00 hours lecture
Grading: Not Graded
Instruction and practice of listening and speaking skills for non-native speakers of English at the mid-beginning level. This course develops oral skills and covers topics such as making requests, giving and receiving instructions, and listening and speaking in conversations and on the telephone.

N ESL 963 Beginning Level Listening and Speaking III
32.00-80.00 hours lecture
Grading: Not Graded
Listening and speaking for non-native speakers of English at the high beginning level. This course focuses on personal and descriptive conversation skills in English. Included are practice speaking and listening in describing personal experiences, expressing opinions, interacting in social situations, and taking and giving messages.

N ESL 964 Intermediate Level Listening and Speaking
32.00-80.00 hours lecture
Grading: Not Graded
Listening and speaking for non-native speakers of English at the intermediate level. This course focuses on listening and speaking skills required in a work or academic environment. Included are listening for the main idea and supporting details in academic and non-academic discourse and giving short work or school-related presentations.

N ESL 972 Basic ESL Skills
36.00-96.00 hours lecture
Grading: Not Graded
A literacy course for non-native speakers of English. This course is designed for students with varying levels of English proficiency. It provides instruction and practice in reading, writing, speaking, and listening while learning about grammar at the sentence level with more time spent in areas determined by student need.

N ESL 975 Accelerated Written Communication I
96.00-108.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
An accelerated course in academic reading and writing. Designed for students whose first language is not English. Emphasizes analytical and critical thinking skills through reading and writing as a process. Reviews sentence-level grammar and its application to academic writing of summaries and development of paragraph organization and multiple-paragraph essays.

N ESL 976 Multicultural Humanities
96.00-108.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
A humanities course designed for advanced multilingual learners of English that examines multi-cultural works and emphasizes skills in critical thinking and analysis. This course develops students' abilities to critically analyze and respond both objectively and subjectively to published materials from culturally diverse traditions. It features practice in written communication, research strategies, synthesis of sources, and critical reading. Readings provide exposure to a range of genres and cultures to develop a broader cultural understanding of the world.

N ESL 982 Computer Skills 1 - Foundational Skills
30.00-72.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
Basic computer literacy and skills development for non-native speakers of English. This course is designed for students who have little or no experience using a computer. Topics include basic computer vocabulary, basic computing processes, Internet skills and concepts, and basic electronic mail.

N ESL 983 Computer Skills 2 - Office Applications
30.00-72.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
Basic computer literacy and skills development for non-native speakers of English. This course is designed for students who have little or no experience using a computer. Topics include computer vocabulary, file management skills, word processing, electronic presentations, and electronic spreadsheets.

N ESL 984 Computer Skills 3 - The Digital Age
30.00-72.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
This course helps students learn computer skills for the workplace. The class is for students who are learning English in addition to new computer programs. Students learn English vocabulary for computers, practice written English on the computer, and use computer skills that are useful at work.

N ESL 993 Career Exploration and Job Skills
54.00-72.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
This course prepares English language learners for the education or training they need to reach their career goals. Students explore career options, navigate college websites, send professional emails, and use their research to create a detailed career pathway. Students develop the English reading, writing, speaking, listening, grammar, and general technology skills used in the workplace.

N ESL 994 Working in the U.S.
54.00-72.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
This course prepares English language learners to apply for jobs and succeed in the U.S. workplace. Students navigate online job postings and develop job application skills such as making a resume, writing a cover letter, and doing interviews. The course covers laws that protect workers and cultural norms in the U.S. workplace. Throughout the class, students will demonstrate 21st century workplace skills, including communication, collaboration, problem-solving, and social/diversity awareness.

N ESL 995 English as a Second Language Support Course
16.00-72.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
English as a Second Language contextualized support instruction to prepare intermediate to advanced ESL students for success in a credit or noncredit certificate or degree program. Course instruction focuses on reading, writing, listening and speaking skills necessary to succeed in a specified career or education program.

N ESL 996 Writing Support for the Sciences for Non-Native Speakers
20.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
Provides instruction and practice with written rhetorical models prevalent across the sciences curricula (Life Sciences, Earth Sciences, Behavioral Sciences, Social Sciences, etc.). Focus on instruction and practice with essay types and other writing that enrolled students need for their current science courses.

N ESL 997 Workplace ESL: Medical Fields
16.00-72.00 hours lecture
Note: May be taken up to 4 times for up to 0.00 total units
Grading: Pass/No Pass/Satisfactory Progress
This course supports English language learners interested in health care careers. The course focuses on occupation-specific terminology and communication skills, with an emphasis on intercultural communication. Students learn reading, writing, and oral communication skills to succeed in academic programs in the medical field. The course is recommended for high intermediate to advanced English language learners, and students are encouraged to take the course concurrently with related noncredit courses in the medical field.

N GEOG-Noncredit Geography

N GEOG 900 Introduction to Drone Safety and Applications
18.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
A survey of the regulations governing small unmanned aircraft systems (sUAS) operations and safety considerations. Existing and emerging trends of sUAS applications in various industries will also be discussed.

N GEOG 901 Careers in the Drone industry
18.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
This course will assist students with transitioning into the career field of unmanned aircraft systems (UAS), more commonly known as drones. This course will feature a series of guest speakers with industry experience in UAS as well as military experience. Each speaker will address a different career opportunity, including how to start a drone business, search and rescue, videography, as well as career and contracting opportunities for veteran-owned small businesses.

N GEOG 902 Preparation for the Basic Proficiency Evaluation for Remote Pilots (BPERP) Certification
18.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
Cross listed as: N GCIP 902
This is a hand-on course that will prepare students for different aspects of the Airborne Public Safety Association (APSA)'s Basic Proficiency Evaluation for Remote Pilots (BPERP) certification exam. We will specifically emphasize safety, capabilities, and operation competency in order to prepare students to attain the industry-recognized BPERP certification.

N KINE-Noncredit Kinesiology

N KINE 900 Active Fitness for Older Adults
32.00-54.00 hours lab
Grading: Not Graded
A low impact aerobic exercise program designed specifically for the adult student. Exercises incorporate gentle but effective movements to increase endurance, flexibility, agility, strength, and muscle tone. Stretch bands and weights may be incorporated into the course. The course may be adapted for individuals with physical challenges.

N KINE 906 Hatha Yoga for Older Adults
32.00-54.00 hours lab
Grading: Not Graded
Designed for older adults, this course will allow the individual to progress from beginner to advanced status. Yoga integrates static and dynamic physical postures with mental discipline to achieve greater well-being. Students will increase strength, flexibility, and balance; decrease mental and physical stress; and improve circulation throughout the body.

N KINE 981A Beginning Adapted Aquatics
48.00-54.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
Introduction to basic aquatics skills with an emphasis on safety and increasing comfort in an aquatic environment. Skills adapted to the individual student's disability.

N KINE 981B Intermediate Adapted Aquatics
48.00-54.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
Emphasis on building aquatic skills, cardiovascular conditioning, strength, balance, and coordination through the use of swim aids and stroke techniques modified for individual student's disability.

N KINE 982 Adapted Weight Training
48.00-54.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
Resistance activities designed to meet specific needs of the student with a disability. Development and maintenance of a level of strength, flexibility, and cardiovascular endurance in order to facilitate independence of movement and rehabilitation of specific muscle groups.

N KINE 984 Adapted Body Conditioning
48.00-54.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
Training to increase endurance, flexibility, and strength. Emphasis on individual fitness profile.

N MATH-Noncredit Mathematics

N MATH 915 Mathematical Literacy
32.00-76.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
This course is designed to help students improve numeracy, computational skills and algebraic thinking to prepare for employment and future educational opportunities.

N MEDC-Noncredit Medical

N MEDC 901 Medical Professions Preparatory Module 1
4.00-14.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
This is the first of three modules that is designed to help prepare entry level students who are interested in a career within the medical professions. This module will provide the student with a basic knowledge in the areas of medical terminology, study skills and reading comprehension (specifically how to read medical text books).

N MEDC 902 Medical Professions Preparatory Module 2
4.00-14.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
This is the second of three modules that is designed to help prepare entry level students who are interested in a career within the medical professions. This module will provide the student with a basic knowledge in the areas of pharmacology and medication math calculations and expand upon anatomy and medical terminology learned in module 1.

N MEDC 903 Medical Professions Preparatory Module 3
8.00-18.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
This is the last of three modules that is designed to help prepare entry level students who are interested in a career within the medical professions. This module will provide the student with a basic knowledge in the areas of Cardiology, pharmacology and medication math calculations.

N MEDC 997 Special Topics in Prehospital Healthcare
20.00-32.00 hours lecture
Note: May be taken up to 2 times
Grading: Pass/No Pass/Satisfactory Progress
Topics in Prehospital Healthcare. See class schedule for specific topic offered. Course title will designate subject covered.

N MUS-Noncredit Music

N MUS 934 Palomar Treble Chorus for Older Adults
48.00-54.00 hours lab
Grading: Not Graded
This ensemble for the older adult is a small, treble voice (soprano and alto) vocal ensemble of (20 to 28 singers), which studies a wide range of choral literature/music for the treble voice. The repertoire is representative of a comprehensive choral music curriculum, including diverse languages, style periods, and cultures. Performances are combined with the Palomar Chamber Singers and the Palomar Chorale and are held on campus and in the community.

N MUS 937 Afro-Cuban and Brazilian Drumming for Older Adults
24.00-54.00 hours lab
Grading: Not Graded
Drum, percussion and song classes in the traditions of Escola de Samba from Rio de Janeiro, Brazil and Afro-Cuban traditions, popular and folkloric; Rumba, Congo (Makuta/Palo), Franco/Haitian (Gaga/Congo Layet)from East and West Cuba for older adults. Develop ability to work as a drum ensemble.

N MUS 948 Community Chorale for Older Adults
48.00-54.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition): MUS 103, 130
Grading: Not Graded
This ensemble for the older adult rehearses and performs repertoire from the standard oratorio and choral literature. Emphasis is placed on stylistic and historical performance practices, vocal technique, and musicianship. Performances are combined with the Palomar Chorale and are held on campus and in the community.

N MUS 951 Community Concert Band for Older Adults
48.00-54.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition): MUS 103, 198, 115
Grading: Not Graded
This ensemble for the older adult rehearses and performs classics from the standard concert band literature. Emphasis is placed on stylistic and historical performance practices, instrumental techniques, and musicianship. Performances are combined with the Palomar Concert Band and are held on campus and in the community.

N MUS 952 Community Jazz Ensemble for Older Adults
48.00-54.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition): MUS 172, 103, 151
Grading: Not Graded
This ensemble for the older adult rehearses and performs standard stage band literature, with opportunities for students to arrange and compose for the band, and rehearse the ensemble. Emphasis is placed on stylistic and historical performance practices, instrumental and vocal techniques, and musicianship. Performances are combined with the Palomar Jazz Ensemble and are held on campus and in the community. Attendance at all scheduled performances is required.

N MUS 955 Community Brass Ensemble for Older Adults
48.00-54.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition): MUS 151, MUS 103
Grading: Not Graded
This ensemble for the older adult rehearses and performs chamber music literature for brass. Emphasis is placed on stylistic and historical performance practices, brass-specific instrumental techniques, and musicianship. Performances are combined with the Palomar Brass Ensemble and are held on campus and in the community.

N MUS 958 Chamber Singers for Older Adults
48.00-54.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition): MUS 103
Grading: Pass/No Pass/Satisfactory Progress
This ensemble for the older adult is a small, mixed-voice vocal ensemble (20 to 28 singers), which studies a wide range of choral literature and performs several concerts during each academic year. The repertoire is representative of a comprehensive choral music curriculum including diverse languages, style periods, and cultures. Performances are combined with the Palomar Chamber Singers and are held on campus and in the community.

N MUS 959 Musical Theatre Orchestra for Older Adults
27.00-54.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition):
Grading: Pass/No Pass/Satisfactory Progress
Rehearsal and performance of musical theatre literature. Attendance at all scheduled productions is required.

N MUS 972 Community Repertory Jazz Band for Older Adults
48.00-54.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition): MUS 151, 103
Grading: Not Graded
This ensemble for the older adult rehearses and performs professional level materials for the large jazz ensemble. Emphasis is placed on stylistic and historical performance practices, instrumental and vocal techniques, and musicianship. Performances are combined with the Palomar Repertory Jazz Ensemble and are held on campus and in the community.

N MUS 998 Community Symphony Orchestra for Older Adults
48.00-54.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition): MUS 103, MUS 151, MUS 148
Grading: Not Graded
This ensemble for the older adult rehearses and performs classics from the standard symphony orchestra literature including works for string and full ensembles. Emphasis is placed on stylistic and historical performance practices, instrumental techniques, and musicianship. Performances are combined with the Palomar Symphony Orchestra and are held on campus and in the community.

N PHOT-Noncredit Photography

N PHOT 920 Getting to Know Lightroom for Older Adults
24.00-27.00 hours lecture - 72.00-81.00 hours lab
Grading: Not Graded
Designed for older adults, this class will explore the capabilities and uses of the digital darkroom using the industry standard Adobe Lightroom. Students will learn to shoot. Photographic editing will include white balance, contrast, lens correction, sharpening and HSL adjustments. Principles, asset management, naming conventions, importing and exporting digital image files. Photographic digital images will be corrected for tone, color balance, resolution and size and the learning path will employ the principles of image editing software to correct, improve and ready photographic digital images for digital output.

N PHOT 930 Photoshop for Photographers I for Older Adults
24.00 hours lecture - 72.00 hours lab
Note: May be taken up to 4 times
Grading: Pass/No Pass/Satisfactory Progress
The technology of digital photography, the computer, and inkjet printers. Emphasis on industry standard image editing software as the primary photographic processing and manipulation tools. Continuing instruction in digital image processing directed toward photographic output. Development of capabilities and use of the digital darkroom.

N PHOT 950 Getting to Know your Digital Camera for Older Adults
24.00-27.00 hours lecture - 72.00-81.00 hours lab
Grading: Not Graded
Designed for older adults, the beginning principles and use of digital cameras.Understand how your digital camera works and what the menu selections mean. Learn to download image files to your computer, make basic editing changes and how to share your images via web, email and slide presentations. The aesthetics and technology of digital photography will be discussed in lecture and critique sessions of students assignments.

N READ-Noncredit Reading

N READ 921 Reading Across the Disciplines
8.00-18.00 hours lecture
Note: May be taken up to 4 times
Grading: Pass/No Pass/Satisfactory Progress
This course offers reading skills to students to apply in other courses they are taking (credit or noncredit). Topics include comprehension development, reading strategies for specific types of texts, vocabulary development, vocabulary strategies, schema building, and other work to increase reading focus, comprehension, and retention.

N READ 931 Developmental Reading Skills
32.00-64.00 hours lecture
Grading: Not Graded
A computer-assisted instruction program based on individual student diagnosis to improve vocabulary and literal reading comprehension skills. Weekly lectures will focus on specific vocabulary development and basic comprehension strategies.

N READ 932 Intermediate Reading Skills
32.00-64.00 hours lecture
Grading: Not Graded
An individualized computer-assisted instruction program based on individual student diagnosis to improve students' command of denotative and connotative vocabulary, and literal/analytical reading.

N READ 949 Introduction to College Reading Skills
32.00-64.00 hours lecture
Grading: Not Graded
A course designed to improve the student's fluency in vocabulary and literal comprehension skills needed to read and analyze independent reading material, as well as expository material such as textbooks and technical articles. Given a variety of instructional techniques and independent practice, students will improve the skills necessary to read at or above the 10th grade level.

N READ 950 Reading and Language Arts
32.00-80.00 hours lecture
Grading: Pass/No Pass/Satisfactory Progress
This course is designed to aid students in the development of basic reading and writing skills, including critical thinking, in order to prepare them for the workforce and future educational opportunities

N READ 990 Reading Improvement
48.00-54.00 hours lecture - 48.00-54.00 hours lab
Grading: Pass/No Pass/Satisfactory Progress
Designed to improve reading skills. Individual reading problems are diagnosed and improved through a variety of instructional materials and reading techniques. For students who need to remedy difficulties with reading comprehension, vocabulary, and fluency.

N SOC-Noncredit Sociology

N SOC 900 Brain Fitness for Older Adults
16.00-48.00 hours lecture
Grading: Not Graded
A course designed to enhance the physical and/or mental health of older adults through information programs, physical movement and/or mental exercises/activities designed to reduce stress and anxiety while improving health and wellness.

N WELD-Noncredit Welding

N WELD 900 Augmented Arc SMAW
31.68 hours lecture - 64.32 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition)
Grading: Pass/No Pass/Satisfactory Progress
Augmented Arc, Shielded Metal Arc Welding introduces a student to SMAW using a Augmented Arc welding simulator. Topics covered include: Welding terms, definitions and nomenclature, Principles of operation, SMAW equipment, welding current, Arc control, arc force DIG and hot start, Welding Accessories, SMAW electrodes, Essentials of good welding technique, Weld Types and Positions, Welding Symbols.

N WELD 901 Augmented Arc GMAW
31.68 hours lecture - 64.32 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition)
Grading: Pass/No Pass/Satisfactory Progress
Augmented Arc: Gas Metal Arc Welding introduces a student to GMAW using a Augmented Arc welding simulator. Topics covered include: Welding terms, definitions and nomenclature, principles of operation, GMAW equipment, welding current, wire feeders, GMAW gun, GMAW variables, GMAW wires, GMAW transfer modes, Shielding gasses, welding joint types, welding positions and welding symbols.

N WELD 902 Augmented Arc GTAW
31.68 hours lecture - 64.32 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition)
Grading: Pass/No Pass/Satisfactory Progress
Augmented Arc, Gas Tungsten Arc Welding (GTAW) introduces students to GTAW using an Augmented Arc welding simulator. Topics covered include: welding terms, definitions and nomenclature, principles of operation, GTAW equipment, welding current, shielding gasses, GTAW electrodes, essentials of good welding technique, weld types and positions, and welding symbols.

N WELD 903 Introduction to Welding & Welding Safety 96.00 hours lecture
Limitation on Enrollment (e.g. Performance tryout or audition)
Grading: Pass/No Pass/Satisfactory Progress
Introduction to Welding & Welding Safety is an introductory course that emphasizes the safe practices that are essential in the welding industry. Students will be introduced to the welding hazards, personal protection equipment and welding industry standards. Students will also be introduced to the various electrical arc processes, filler metals, weld position and types, and welding terminology.

NURS-Nursing Education

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

NURS 60 Healthcare Academy - Summer Program (2.50)
2.00 hours lecture - 2.00 hours lab
Transferability: CSU
Grading: Pass/No Pass Only
This course is designed for the beginning student who is interested in a healthcare career.

NURS 110 LVN-RN Transition (2.00)
1.00 hours lecture - 3.00 hours lab
Prerequisite: A copy of a current, active California LVN license in good standing must be on file in the Nursing Education Office prior to registering in this class; **Recommended Preparation:** completion of intermediate algebra or the equivalent, or eligibility or completion of any course between MATH 110 and 245 (excluding MATH 197, MATH 120, or PSYC/SOC 205, or BUS 204) based on multiple measures.
Transferability: CSU
Grading: Graded Only
Facilitates the transition of the Licensed Vocational Nurse into the Associate Degree Nursing Program. Topics include, but are not limited to, nursing process, critical thinking, health assessment utilizing evidence based interventions, and role differentiation. Multicultural considerations including ethnicity, gender, age, and sexuality are explored. Concepts essential for registered nursing practice and functional health patterns are examined.

NURS 117-MS Introduction to Nursing Concepts (10.00)
5.50 hours lecture - 13.50 hours lab
Prerequisite: Admission into the Associate Degree Nursing Program
Transferability: CSU
Grading: Graded Only
This course introduces basic nursing concepts within the domains of Biophysical, Client Attributes, Nursing, and Health Care. Nursing concepts will include: Elimination, Nutrition and Digestion, Regulation and Metabolism, Sensory Perception, Mobility, Oxygenation, Perfusion, Tissue Integrity, Immunity, Fluid and Electrolytes/Acid-Base Balance, Infection, Comfort, Stress and Coping, Abuse and Violence, Development, Diversity, Wellness and Health Promotion, Communication, Professional Identity, Clinical Judgment, Ethical Practice, Legal Issues, Quality Improvement, Informatics, and Health Care Delivery. There will be an introduction to patient centered nursing care, therapeutic communication, nursing assessment throughout the lifespan, pharmacology, medication administration, and fundamental nursing skills. Students will be able to demonstrate safe nursing care and practices for clients with expected or predictable outcomes, incorporating the concepts discussed in this course.

NURS 118-BH Concepts for Behavioral Health (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: NURS 117-MS, or Admission to the Associate Degree Nursing Program with a current LVN license and at least 1 year experience within the past 5 years.
Transferability: CSU
Grading: Graded Only
This course builds upon 117-MS incorporating nursing concepts within the domains of Biophysical, Client Attributes, Nursing, and Health Care. Concepts will include: Sexuality, Comfort, Stress and Coping, Mood and Affect, Cognition, Abuse and Violence, Diversity, Wellness and Health Promotion, Communication, Legal Issues, Quality Improvement, and Health Care Policy. This course expands on nursing assessment, pharmacology, medication administration, nursing skills, and the nursing process in relation to mental health. Students will be able to demonstrate safe nursing care and practices, incorporating the concepts discussed in this course.

NURS 118-OB Health Concepts for the Childbearing Family (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: NURS 117-MS, or Admission to the Associate Degree Nursing Program with a current LVN license and at least one year experience within the past 5 years.
Transferability: CSU
Grading: Graded Only
This course builds upon 117-MS incorporating nursing concepts within the domains of health, client attributes, nursing profession, and healthcare system. Nursing concepts will include: Regulation and Metabolism; Reproduction; Mood and affect; Human Development; Diversity; Legal Practice; Abuse and Violence; Health and Wellness/Health Promotion/Disease Prevention; Grief and Loss; Quality Improvement, and Technical Skills. This course expands on professional nursing concepts, nursing assessment, pharmacology, medication administration, nursing skills, and the nursing process in relation to the childbearing family. Students will be able to demonstrate safe nursing care and practices, incorporating the concepts discussed in this course.

NURS 118-P Health Concepts for Pediatrics (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: NURS 117-MS, or Admission to the Associate Degree Nursing Program with a current LVN license and at least 1 year experience within the past 5 years.
Transferability: CSU
Grading: Graded Only
This course builds upon NURS 117-MS, incorporating nursing concepts within the domains of Biophysical, Client Attributes, Nursing, and Health Care. Concepts will include: Elimination, Nutrition and Digestion, Regulation and Metabolism, Sensory Perception, Mobility, Oxygenation, Perfusion Cellular Regulation, Immunity, Fluid and Electrolytes/Acid-Base balance, Infection, Intracranial Regulation, Cognition, Abuse and Violence, Development, Diversity, Wellness and Health Promotion, Clinical Judgment, Ethical Practice, and Quality Improvement. This course expands on nursing assessment, pharmacology, medication administration, nursing skills, and the nursing process in relation to pediatrics and growth and development. Students will be able to demonstrate safe nursing care and practices, incorporating the concepts discussed in this course.

NURS 120 Pharmacology For Nurses I (2.00)
2.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Basic concepts of pharmacology, pharmacokinetics, pharmacodynamics, drug interactions and the nursing process related to neurologic and neuromuscular agents; analgesics and anti-inflammatory agents; eye, ear, and skin agents; respiratory agents; endocrine agents; gastrointestinal agents; and reproductive and gender-related agents.

NURS 121 Pharmacology for Nurses II (2.00)
2.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Basic concepts of pharmacology, pharmacokinetics, pharmacodynamics, drug interactions, and the nursing process related to anticonclusive agents; antipsychotic agents; cardiovascular agents; renal agents; anti-infective agents vaccinations; and antineoplastic agents.

NURS 140 Adult Health Assessment (1.00)
1.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Basic concepts of health assessment to include interviewing and assessment techniques used to obtain a comprehensive health history from an adult and relating findings to the nursing process. Transcultural and adult developmental stage considerations are also included.

NURS 197 Nursing Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Nursing. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

NURS 217-G Health Concepts for Geriatrics (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: NURS 118-BH and NURS 118-OB and NURS 118-P
Transferability: CSU
Grading: Graded Only
This course builds upon NURS 118-OB, NURS 118-P, and NURS 118-BH, incorporating nursing concepts within the domains of Biophysical, Client Attributes, Nursing, and Health Care. Concepts will include: Nutrition and Digestion, Regulation and Metabolism, Sensory Perception, Mobility, Intracranial Regulation, Comfort, Stress and Coping, Cognition, Abuse and Violence, Development, Grief and Loss, Professional Identity, Ethical Practice, Legal Issues, Quality Improvement, Informatics, and Health Care Delivery. This course expands on nursing assessment, pharmacology, medication administration, nursing skills, and the nursing process in relation to the older adult. Students will be able to demonstrate advanced nursing care and practices, incorporating the concepts discussed in this course.

NURS 217-M Advanced Nursing Concepts II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: NURS 118-BH and NURS 118-OB and NURS 118-P
Transferability: CSU
Grading: Graded Only
This course builds upon NURS 118-OB, NURS 118-P, and NURS 118-BH, incorporating nursing concepts within the domains of Biophysical, Client Attributes, Nursing, and Health Care. Concepts will include: Elimination, Nutrition and Digestion, Regulation and Metabolism, Mobility, Perfusion, Immunity, Fluid and Electrolytes/Acid-Base Balance, Diversity, Grief and Loss, Wellness and Health Promotion, Clinical Judgment, Quality Improvement, and Health Care Delivery. This course expands on nursing assessment, pharmacology, medication administration, nursing skills, and the nursing process in relation to the nursing care of clients with unpredictable outcomes across the lifespan. Students will be able to demonstrate advanced nursing care and practices, incorporating the concepts discussed in this course.

NURS 217-S Advanced Nursing Concepts I (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: NURS 118-BH and NURS 118-OB and NURS 118-P
Transferability: CSU
Grading: Graded Only
This course builds upon NURS 118-OB, NURS 118-P, and NURS 118-BH, incorporating nursing concepts within the domains of Biophysical, Client Attributes, Nursing, and Health Care. Concepts will include: Elimination, Nutrition and Digestion, Regulation and Metabolism, Mobility, Oxygenation, Sexuality, Tissue Integrity, Cellular Regulation, Infection, Comfort, Diversity, Wellness and Health Promotion, Communication, Professional Identity, Legal Issues, Quality Improvement, and Informatics. This course expands on nursing assessment, pharmacology, medication administration, nursing skills, and the nursing process in relation to the nursing care of clients with unpredictable outcomes across the lifespan. Students will be able to demonstrate advanced nursing care and practices, incorporating the concepts discussed in this course.

NURS 218-MS Transition to Professional Nursing Practice Concepts (8.50)
3.50 hours lecture - 15.00 hours lab
Prerequisite: NURS 217-S and NURS 217-M and NURS 217-G
Transferability: CSU
Grading: Graded Only
This course builds upon NURS 217-G, NURS 217-S, and NURS 217-M, incorporating nursing concepts within the domains of Biophysical, Client Attributes, Nursing, and Health Care. Concepts will include: Regulation and Metabolism, Oxygenation, Perfusion, Tissue Integrity, Cellular Regulation, Immunity, Infection, Intracranial Regulation, Stress and Coping, Wellness and Health Promotion, Communication, Professional Identity, Clinical Judgment, Ethical Practice, Legal Issues, Quality Improvement, Informatics, Health Care Delivery, and Health Care Policy. This course expands on nursing assessment, pharmacology, medication administration, nursing skills, and the nursing process in relation to the management of care of multiple, complex, clients across the lifespan. This course transitions the student to professional nursing practice.

NURS 295 Directed Study in Nursing (1.00-3.00)
3.00-9.00 hours lab
Transferability: CSU
Grading: Pass/No Pass Only
Designed for the student who has demonstrated a proficiency in nursing subjects and the initiative to work independently on a particular sustained project which does not fit into the context of regularly scheduled classes. Additionally, this course can be used for students transferring into the Palomar College nursing program. Course work would fulfill needed content and/or clinical laboratory time to meet the requirements of the Associate Degree Nursing Program.

NUTR-Nutrition

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

NUTR 100 Introduction to Nutrition and Food Professions (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Overview of nutrition, food science, dietetics, and fitness professions and disciplines. Employment trends, career options, educational paths, ethical issues, and professional networking will be emphasized. Introduction to professional organizations and publications will be discussed.

NUTR 120 Food and Culture (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Exploration of food as an expression of cultural diversity and examination of how traditional foods reflect geographic area and culture. Regional, ethnic, cultural, religious, historical, and social influences on food patterns are examined. Influence of socio-economic class, beliefs, gender, and age on diet, health, and disease are also discussed.

NUTR 165 Introduction to Human Nutrition (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The study of the relationship between human nutrition and health or disease states including the integration of anatomy, physiology, chemistry, biochemistry, medical science, and biotechnology to understand the full impact on the human body. Current nutrition guidance models and approaches to medical nutrition are analyzed with an emphasis on evidence-based findings. A discussion of food selection, the nutritional components of food, metabolism, and risks associated with excesses or deficiencies throughout the lifecycle are also discussed. The impact of technological advances in nutrition is explored, along with a discussion of a lack of equity in access to food and nutrition information.

NUTR 185 Science of Human Nutrition (3.00)
3.00 hours lecture
Prerequisite: BIOL 100, or BIOL 101; CHEM 100, or CHEM 110 and CHEM 110L
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Science of food, nutrients, and other substances. Processes by which humans ingest, digest, absorb, transport, utilize, and excrete foods and nutrients are explored. Emphasis on biological, chemical, and physiological implications to human nutrition and overall health. Current nutrition recommendations and controversies are analyzed from a scientific perspective.

NUTR 197 Topics in Nutrition (0.50-3.00)
0.50-3.00 hours lecture - 1.50-9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Nutrition. See Class Schedule for specific topics offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

OCN-Oceanography

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

OCN 100 Oceanography Lecture (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introductory course designed to acquaint the student with general oceanography. Topics treated include the history and scope of oceanography, properties of sea water, ocean currents, ocean waves and tides, submarine morphology and geology, marine sediments, life in the sea, and the significance of the oceans to man.

OCN 100L Oceanography Laboratory (1.00)
3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): OCN 100
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Laboratory and field investigations of marine environments including geologic, physical, chemical, and biological aspects of the ocean and coastal area. The course emphasizes changing physical factors and man's activities as they affect the oceans.

OCN 295 Directed Study in Oceanography (1.00-3.00)
3.00-9.00 hours lab
Prerequisite: OCN 100 and OCN 100L
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Individual study in field, library, or laboratory for interested students.

PHIL-Philosophy

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

PHIL 111 Introduction to Philosophy (3.00)
3.00 hours lecture
Recommended Preparation: Eligibility for ; ENGL C1000, or ENGL C1000E, or ESL 110; as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID PHIL 100
Introduces philosophical ideas and methods concerning knowledge, reality and values. Expected topics will include the sources and limits of knowledge, and the nature of reality. Other topics that may be examined from a philosophical perspective include the nature of the self, truth, ethics, religion, science, language, beauty and art, political theory, or mind.

PHIL 113 Reasoning About Philosophical Issues (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to the relationship of language to logic, with applications of analysis, criticism, inductive and deductive reasoning and kinds of evidence to philosophical problems.

PHIL 114 Asian Philosophies (3.00)
3.00 hours lecture
Recommended Preparation: Eligibility for; ENGL C1000, or ENGL C1000E, or ESL 110; as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A critical examination of the philosophies which originated in Asia, including consideration of the practices which are associated with these belief systems. Several theories of meditation will be discussed. Some comparisons will be made to western attitudes and beliefs.

PHIL 116 Introduction to Logic (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID PHIL 110
Introduces some principles of valid reasoning with emphasis on deductive logic. Must include a study of formal techniques of sentential logic. May also include a treatment of inductive reasoning, language, or fallacies.

PHIL 121 Introduction to Ethics (3.00)
3.00 hours lecture
Recommended Preparation: Eligibility for; ENGL C1000, or ENGL C1000E, or ESL 110; as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Examines the concepts of good and evil, right and wrong, and theories of individual ethical responsibility. The course may also apply ethical theories to examine various social issues such as war, abortion, gun control, euthanasia, racism, and sexism.

PHIL 122 Social and Political Philosophy (3.00)
3.00 hours lecture
Recommended Preparation: Eligibility for; ENGL C1000, or ENGL C1000E, or ESL 110; as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to philosophy focusing on the central issues of society and politics, such as the nature and justification of political authority, citizenship, law, justice (distributive and retributive), power, the limits of government and individual liberty. These issues are examined through classic and contemporary texts in the history of political philosophy.

PHIL 125 Philosophy of Human Nature (3.00)
3.00 hours lecture
Recommended Preparation: Eligibility for; ENGL C1000, or ENGL C1000E, or ESL 110; as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Survey course of theories of human nature and their presuppositions and implications. Presuppositions about human nature underlie religious, political, ethical, psychological, sociological, and scientific theories and contemporary debates in these fields. Students will read primary texts drawn from various disciplines, cultures, and/or historical periods with the goals of understanding the theories of human nature and learning how to critically evaluate them.

PHIL 126 Philosophy of Religion (3.00)
3.00 hours lecture
Recommended Preparation: Eligibility for; ENGL C1000, or ENGL C1000E, or ESL 110; as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A critical consideration of selected perennial and modern problems: definition and role of religion and religious experience, mysticism, grounds for religious beliefs, and religious ethics. Students will be urged to evaluate critically their views of religion and their own religious beliefs.

PHIL 140 History of Ancient Philosophy (3.00)
3.00 hours lecture
Recommended Preparation: Eligibility for; ENGL C1000, or ENGL C1000E, or ESL 110; as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Addresses ancient philosophy. Emphasis will be on the development of Greek philosophy from the Pre-Socratics through Aristotle. May also include Hellenistic, Roman, medieval or non-western thinkers.

PHIL 141 History of Modern Philosophy (3.00)
3.00 hours lecture
Recommended Preparation: Eligibility for; ENGL C1000, or ENGL C1000E, or ESL 110; as determined through the English or English as a Second Language placement process.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID PHIL 140
Addresses 16th through 18th century philosophy. Emphasis will be on broad epistemological and/or metaphysical developments of empiricism and rationalism in philosophical thought from Descartes to Kant. May include approximate precursors and successors.

PHIL 142 Contemporary Philosophical Movements (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A general survey and critical examination of the major philosophical theories and movements in the 19th and 20th centuries within the Continental and Analytic Traditions. Their influences on the history of ideas and contemporary developments, including social, political, and moral developments, concepts of the individual, and theories of knowledge and reality will be examined.

PHIL 197 Philosophy Topics (0.50-6.00)
0.50-6.00 hours lecture - 1.50-18.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Philosophy. See Class Schedule for specific topic covered. Course title will designate subject covered.

PHIL 200 Critical Thinking (3.00)
3.00 hours lecture
Prerequisite: ENGL C1000, or ENGL C1000E, or ESL 110
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Development of skills for critical thinking including open-mindedness, functions and wayward uses of language, informal fallacies, hypotheses and inductive reasoning, and elementary deductive inference forms. Basic communication skills, especially written, are developed, and a critical perspective on world-views is emphasized.

PHIL 201 Symbolic Logic (3.00)
3.00 hours lecture
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of PSYC/SOC 205, BUS 204, or any course between MATH 100 and 245 (excluding MATH 197) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID PHIL 210
Introduces the principles of valid deductive reasoning through the study of formal techniques of sentential logic and predicate logic.

PHIL 250 Philosophy in Literature (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A study of philosophical concepts as they appear in the academic and nonacademic writings of philosophers, and in related writings by non-philosophers. The writings are examined from the perspectives of both philosophical analysis and cultural context. The works and thinkers studied vary from semester to semester. See the class schedule for the current semester's theme.

PHIL 295 Directed Study in Philosophy (1.00-3.00)
1.00-3.00 hours lecture
Prerequisite: Enrollment subject to project approval
Transferability: CSU
Grading: Grade/Pass/No Pass
An individualized or group project in philosophy of any nature
approved by, and under the personal supervision of the instructor.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

PHOT-Photography

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

PHOT 100 Black and White Film Photography (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to the mechanics, optics, chemistry, lighting
principles, and practices of analog photography using film.
Explores the history, aesthetics, and the conceptualization of
photographic imagery. Includes darkroom procedures in
developing, printing, and finishing black and white photographic
materials.

PHOT 105 Intermediate Black and White Photography (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: PHOT 100
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Continues the study of the art and techniques associated with
black and white photography. Problems relating to small and
medium format camera systems and optics will be identified and
compared. Further refinement in darkroom procedures and
aesthetics will be explored.

PHOT 120 Digital Photography (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to theory, mechanics, optics, lighting principles, and
practices of photography using Digital Cameras. Explores the
history, aesthetics, and the conceptualization of photographic
imagery. Photographic seeing is stressed. Includes practices and
procedures for image capture, asset management, software
developing, printing, finishing and presentation and critique.
Students are required to have an adjustable digital camera with
manual exposure and RAW format capabilities.

PHOT 125 History and Criticism of Photography (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A survey of the history of photography from its invention to
modern times and its development as an art and communication
medium. Examines important photographers, their lives and works,
in order to establish a critical understanding of photography and
its place in our culture.

PHOT 130 Photoshop for Photographers I (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: PHOT 120
Transferability: CSU
Grading: Grade/Pass/No Pass
The technology of digital photography, the computer, and inkjet
printers. Emphasis on industry standard image editing software as
the primary photographic processing and manipulation tools.
Continuing instruction in digital image processing directed toward
photographic output. Development of capabilities and use of the
digital darkroom.

PHOT 135 Photoshop for Photographers II (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: PHOT 130
Transferability: CSU
Grading: Grade/Pass/No Pass
A continuing investigation into the technology, theory and
aesthetics of digital photography with instruction on advanced
digital image processing from a photographic perspective.
Emphasis will be on: creating outstanding imagery, perfecting
output through the advance use of image editing software, and
advancing visual literacy.

PHOT 140 Photojournalism (3.00)
1.50 hours lecture - 4.50 hours lab
Recommended Preparation: PHOT 120
Transferability: CSU
Grading: Grade/Pass/No Pass
CID-C-ID JOUR 160
A study of the history and practice of photojournalism, providing
specific application through photographing for The Telescope,
Palomar College's newspaper. Student must provide own camera.

PHOT 145 Advanced Photojournalism (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: PHOT 140
Transferability: CSU
Grading: Grade/Pass/No Pass
Designed to further develop those skills learned in PHOT 140.
Provides advanced-level staffing for the college newspaper,
magazine, and website. Emphasizes the use of multimedia
productions, such as slide shows and DSLR video.

PHOT 160 Photography: Professional Practices (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
This class is intended to prepare students for success after leaving Palomar by developing the materials and skills necessary to succeed beyond Palomar either in entering the creative workforce or continuing their education. The class will develop the soft skills necessary to succeed in a professional creative environment. The class will guide students through the creation of a customized marketing plan, personal brand, professional best practices, communication strategies, ethics, unique legal issues that creative independents face as well as basic pricing, contracts, and related concerns. This class is designed for students wishing to work as professional photographers but is also applicable to any creative professional.

PHOT 171 Landscape Photography and Culture (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: PHOT 120
Transferability: CSU
Grading: Grade/Pass/No Pass
A photographic exploration of the interaction, influences and impact connecting humans, nature and the landscape.

PHOT 197C Photography Topics: General (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Photography, General. See Class Schedule for specific topic offered. Course title will designate subject covered.

PHOT 209 Photographic Portfolio (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: PHOT 105, or PHOT 130
Transferability: CSU
Grading: Grade/Pass/No Pass
Study portfolio design and production, goal-setting, and market research. Develop resumes, artist statements, and cover and inquiry letters. Employ self-promotion techniques for a range of career, scholastic and artistic purposes. Develop visual literacy, analytical skills and subjective thought.

PHOT 210 Advanced Black and White Photography (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: PHOT 105
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An exploration of the creative and technical possibilities of the View Camera through various assignments aimed at developing a personal style and approach to the production of quality black and white photography. A study of the relationship between film exposure and development and its application in the "zone system" is stressed.

PHOT 215 Creative Photography (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: PHOT 100
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Exploration of photography as an art form using both conventional and non-conventional silver and non-silver processes to permit broad variations and approaches to photographic expression.

PHOT 220 Commercial Photography (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: PHOT 130
Transferability: CSU
Grading: Grade/Pass/No Pass
Considerations of professional technical fundamentals in lighting, camera systems, digital workflow and management as applied in studio and location photography for commercial, advertising, and promotional purposes.

PHOT 225 Photographic Portraiture (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: PHOT 130
Transferability: CSU
Grading: Grade/Pass/No Pass
Techniques and styles of photographic portraiture. Studio and non-studio applications will be explored using black and white and color films or digital capture. Emphasis on lighting equipment and techniques.

PHOT 295 Directed Study in Photography (1.00-4.00)
3.33-12.50 hours lab
Recommended Preparation: PHOT 120
Transferability: CSU
Grading: Grade/Pass/No Pass
Independent study for advanced students dealing with projects or research in areas not covered by regular classes. Students will work under the guidance of an instructor.

PHSC-Physical Science

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

PHSC 101 Principles of Physical Science (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
The study of selected topics from the fields of physics and chemistry and their related sciences through lectures, videos, and demonstrations.

PHYS-Physics

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

PHYS 101 Introduction to Physics (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of any course between MATH 110 and 245 (excluding MATH 197, MATH 120, or PSYC/SOC 205, SOC 180, or BUS 204) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introductory survey course in classical physics, electricity and magnetism and modern physics. Topics include position, velocity acceleration, momentum, energy, projectile motion, circuits, light, and sound. Physics 101 Lab must be taken at the same time. Not intended for science majors.

PHYS 102 Introduction to Physics (Lecture) (3.00)
3.00 hours lecture
Prerequisite: Completion of intermediate algebra or the equivalent or eligibility or completetion of any course between MATH 110 and MATH 245 (excluding math 197, math 120 or PSYC/SOC 205 ,SOC 180, or BUS 204) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An introductory survey course in classical and modern physics. Not intended for science majors.

PHYS 120 General Physics (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: MATH 110, or MATH 110E; **Recommended Preparation:** MATH 115, or MATH 115E
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID PHYS 105
The fundamental principles of classical mechanics, wave motion, sound, thermodynamics, and fluids.

PHYS 121 General Physics (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: PHYS 120
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID PHYS 110
A second semester continuation of PHYS 120. The fundamental principles of optics, electricity, magnetism, and modern physics.

PHYS 197 Physics Topics (0.50-5.00)
0.50-5.00 hours lecture - 1.50-15.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Topics in Physics. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. May be transferable to UC upon UC's review of the course syllabus.

PHYS 200 Fundamentals of Physics (5.00)
4.00 hours lecture - 3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): MATH 140, or MATH 140E
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A calculus-based course in classical mechanics, waves, sound, fluids and thermodynamics, with an emphasis on life science pre-professional, and architectural fields.

PHYS 201 Fundamentals of Physics (5.00)
4.00 hours lecture - 3.00 hours lab
Prerequisite: PHYS 200; **Prerequisite: (Completion of, or concurrent enrollment in):** MATH 141, or MATH 141E
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A calculus-based course in classical electromagnetism, optics and atomic physics, with an emphasis on life science, pre-professional, and architectural fields.

PHYS 210 Matlab for Science and Engineering (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): MATH 141, or MATH 141E
Transferability: UC/CSU
Grading: Graded Only
Introduction to programming in Matlab, with an emphasis in numerical analysis of basic scientific and engineering problems. Recommended for students that will major in any Physical Science or Engineering degree.
Notes:
Introduction to programming in Matlab, with an emphasis in numerical analysis of basic scientific and engineering problems. Recommended for students that will major in any Physical Science or Engineering degree.

PHYS 230 Principles of Physics (5.00)
4.00 hours lecture - 3.00 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): MATH 141, or MATH 141E
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID PHYS 205
Classical mechanics, thermodynamics, and fluid dynamics. Required for students whose major field is physics, chemistry, or engineering. This is the first semester of a three semester sequence.

PHYS 231 Principles of Physics (5.00)
4.00 hours lecture - 3.00 hours lab
Prerequisite: PHYS 230; **Prerequisite: (Completion of, or concurrent enrollment in):** MATH 205
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID PHYS 210
Classical electromagnetism, electromagnetic waves, and optics. Required for students whose major field is physics, chemistry, or engineering.This is the second semester of a three semester sequence.

PHYS 232 Principles of Physics (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: PHYS 231, or PHYS 201 and MATH 205
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID PHYS 215
Modern Physics. Required for students whose major field is physics, chemistry, or engineering. This is the third semester of a three-semester sequence.

PHYS 295 Directed Study in Physics (1.00-3.00)
3.00-9.00 hours lab
Prerequisite: Approval of project or research by department chairperson
Transferability: CSU
Grading: Grade/Pass/No Pass
Designed for the student who has demonstrated a proficiency in physics subjects and the initiative to work independently on a particular sustained project which does not fit into the context of regularly scheduled classes.

POLS-Political Science

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

POLS C1000 American Government and Politics (4.00)
4.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is an introduction to government and politics in the United States and California. Students examine the constitutions, structure, and operation of governing institutions, civil liberties and civil rights, political behaviors, political issues, and public policy using political science theory and methodology. The course also examines the historical roots of both the U.S. Constitution and American institutions, as well as the historical evolutions of American civil liberties & rights, the historical and contemporary party systems and elections & campaigns in national and California politics.
Notes:
Formerly POSC 101 & 102

POSC-Political Science

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

POSC 100 Introduction to Political Science (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to the scope and methods of political science; basic political concepts and policies; comparative government institutions, stressing the United States; an overview of political theories, international politics, and political economy.

POSC 101* Introduction to Politics and American Political Institutions
See POLS C1000 American Government and Politics

POSC 102* Introduction to United States and California Governments
See POLS C1000 American Government and Politics

POSC 103 Introduction to Comparative Politics (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is an introduction to comparative politics. Emphasis is placed on analyses of various political systems around the world and key regions using the fundamental concepts and methodologies of comparative politics and political science. This course is designed for political science majors and anyone interested in comparative and/or international politics.

POSC 110 Introduction to World Politics (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Sources and uses of power in the arena of international politics. Causes and consequences of 20th century wars. The balance of power, history, geography, military and economic potential will be examined to show their impact on foreign policies of the United States, Europe, Russia, Japan, China and less-developed states. Uses of military force, economic leverage, diplomacy, law, etc., discussed as approaches to limit war.

POSC 120 California Government (1.00)
1.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Intended for students who have completed the American History and Institutions requirements for the A.A. Degree or CSU General Education, but have not met the California Constitution requirement. Organization and operation of California state and local government. Stress upon citizen participation in the decision making process.

POSC 197 Political Science Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Topics in Political Science. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. May be transferable to UC upon UC's review of the course syllabus.

POSC 295 Directed Study in Political Science (1.00-3.00)
3.00-9.00 hours lab
Prerequisite: Approval of project or research by department chairperson
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Independent study designed for advanced students who have demonstrated a proficiency in political science subjects and have the initiative to work independently on projects or research that does not fit into the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

PSYC-Psychology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

PSYC 100* Introduction to Psychology
See PSYC C1000 Introduction to Psychology

PSYC 105 Marriage, Family and Intimate Relationships (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: SOC 105
A study of the psychology and sociology of the family and intimate relationships. Emphasizes factors that enhance interpersonal relationships. Topics include love, marital choice, communication, conflict, and changing models of the family. Examines cross-cultural and historical factors that impact the family as a social institution and the impact of gender, race and ethinicity, social class, age, and sexual orientation on family organization.

PSYC 110 Developmental Psychology - Child Through Adult (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Provides an overview, from a psychological perspective, of human growth and development throughout the lifespan, from conception to death. Biological and environmental influences on development, developmental theories and research of physical, cognitive, personality, and social development, as well as attention to developmental problems are examined.

PSYC 115 The Psychology of Personal Growth and Development (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is designed with an applied focus for students interested in how psychology is useful in everyday life and how scientists, clinicians, and practitioners study and apply psychology. The course surveys different theories and psychological perspectives and how these may be applied across a person's life. The influence of factors such as culture, gender, ethnicity, historical cohort, and socio-economic status are examined. Emphasis on self understanding and application through the study of the individual, environment and social relationships which contribute to unique personal development.

PSYC 120 Social Psychology (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID PSY 170
Considers individual human behavior in relation to the social environment. The power of the situation, other individuals, and the social group will be examined. Emphasized topics include: aggression, prejudice and stereotypes, interpersonal attraction, attitudes and attitude change, conformity, group phenomena, gender roles, cultural norms, person perception, and social cognition.

PSYC 125 Human Sexuality (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: SOC 125
CID-C-ID PSY 130
Survey of topics pertinent to an understanding of the development of human sexuality. Emphasis on biological, psychological, and cultural determinants of sexual behavior. Current sex norms and various aspects of interpersonal and individual sexual adjustment.

PSYC 130 Psychology of Gender (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Psychological research and theories to examine the development and impact of gender identity. Areas covered include the psychological and cultural history of gender and gender identity, changing sex roles, socialization, issues related to mental and physical well-being, stereotyping, academics/careers, and cognition. Content will be relevant to both men and women.

PSYC 145 Psychology and Sociology of Aging (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: SOC 145
A multi-disciplinary approach to the field of gerontology; historical, demographic, psychological, and sociological aspects of aging.

PSYC 150 Introduction to Alcohol and Other Drug Studies
(3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: AODS 150, SOC 150
Examines alcohol, tobacco, and psychoactive drugs in society. Biological, psychological and socio-cultural factors of drug abuse and dependence will be explored. The impact of addiction on families and society; contemporary treatment techniques, and the addiction counseling profession will be covered.

PSYC 155 The Physiology and Pharmacology of Psychoactive Drugs (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: AODS 155, SOC 155
This course will examine how psychoactive drugs affect the nervous system. Ways of classifying drugs will be identified including the processes of physical and psychological dependence, tolerance, withdrawal, and genetic predispositions. Temporary and long-term affective, behavioral, cognitive, biological, and social consequences of psychoactive drug use will be explored, including disorders such as Korsakoff's syndrome and other nutritional deficiencies.

PSYC 197 Special Topics in Contemporary Psychology
(1.00-3.00)
1.00-3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Current topics of special interest to psychology students will be debated and discussed in a seminar format. Issues in such areas as social psychology, perception and learning, personality, and others will be analyzed from theoretical and methodological perspectives. Content will change from semester to semester.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

PSYC 205 Statistics for the Behavioral Sciences (4.00)
4.00 hours lecture
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of PSYC/SOC 205, BUS 204, or any course between MATH 100 and 245 (excluding MATH 197) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: SOC 205
CID-C-ID SOCI 125
Quantitative and qualitative methods as applied to behavioral science data. Frequency distributions, measures of central tendency, variability, hypothesis testing, measures of probability and significance, correlation, regression, and inferential statistics. Also included are data entry, graphing, statistical analysis, and interpretation of data using word processing, spreadsheet, and statistical software.

PSYC 210 Physiological Psychology (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: PSYC C1000
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An examination of the biological basis of behavior. Topics to be covered include neuroanatomy, neurophysiology, psychoactive drug use and addiction, endocrinology, encephalic evolution, learning and memory, sexual behavior, sleep processes and neuropsychological disorders. Laboratory includes neuroanatomical dissection.

PSYC 211 Introduction to Cognitive Psychology (3.00)
3.00 hours lecture
Recommended Preparation: PSYC C1000
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A general introduction to the principles of cognition. This course examines theoretical and research approaches to the study of cognitive neuroscience, perception, attention, memory, knowledge, visual imagery, language acquisition and development, problem solving and decision making.

PSYC 225 Psychology of Abnormal Behavior (3.00)
3.00 hours lecture
Prerequisite: PSYC C1000
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Identification and description of the various types of psychological abnormalities, deficiencies, and disorders which may interfere with a human individual's ability to cope with the demands of the surroundings. All of the major psychiatric categories will be covered as well as the types of personality problems which lead to domestic, social, and economic inadequacies, and in some instances, to difficulties with the law.

PSYC 230 Research Methods in Psychology (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: PSYC C1000; PSYC 205; ENGL C1000, or ENGL C1000E, or ESL 110
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to psychological research methods with emphasis on the use of the scientific method in psychological research. The laboratory is designed to complement the lectures and allow each student to design and conduct psychological research.

PSYC 235 Principles of Learning and Behavior Modification
(3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The basic principles and research in classical conditioning, operant conditioning, cognitive learning processes, the impact of biochemical processes on learning, and application of behavior modification techniques for changing behavior.

PSYC C1000 Introduction to Psychology (3.00)
3.00 hours lecture
Recommended Preparation: Eligibility for college-level writing (CID ENGL 100) and reading (a course with an existing skill of ability to read a college level text).
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is an introduction to psychology, which is the study of the mind and behavior. Students focus on theories and concepts of biological, cognitive, developmental, environmental, social, and cultural influences; their applications; and their research foundations. A general introduction to the principles of human and animal behavior. Topics covered include history of psychology, research thinking, intelligence, lifespan development, gender and human sexuality, motivation and emotion, health psychology, personality, psychological disorders, therapy, social psychology, and other related topics (e.g. industrial/organizational psychology, sports psychology, environmental psychology, forensic psychology). Emphasis is placed upon the relationship between general principles of psychology and their practical applications.
Notes:
Formerly PSYC 100

PWM-Public Works Management

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

PWM 50 Introduction to Public Works (3.00)
3.00 hours lecture
Corequisite (Course required to be taken concurrently):
Grading: Grade/Pass/No Pass
Designed by the American Public Works and Maintenance Superintendents Associations in order to prepare public works and maintenance workers for lead and supervisory positions. Students will receive an introduction to techniques; materials and equipment used in public works, maintenance and repair projects.

PWM 51 Street Construction and Maintenance (3.00)
3.00 hours lecture
Grading: Grade/Pass/No Pass
Provides instruction on street construction and maintenance; including materials and methods, specifications, records and cost accounting systems, revenue sources and budget preparation. Other subjects include safety, drainage, equipment records and specifications, as well as public relations. Codes and industry standards that pertain to improvements and repair will be reviewed.

PWM 52 Asphalt and Portland Cement (3.00)
3.00 hours lecture
Grading: Grade/Pass/No Pass
Provides instruction on the recommended procedures, practices, and testing criteria used by the Asphalt Institute highlighting local city and county asphalt requirements. Content includes specifications for roads, runway floors, and hydraulic structures and Portland Cement concrete design and uses. Includes transporting, placing, curing, and testing concrete as well as application and construction methods employed.

PWM 53 Public Works Inspection (3.00)
3.00 hours lecture
Grading: Grade/Pass/No Pass
Provides an overview of the inspector's role and responsibilities as it relates to a project. The student will be given the necessary information and training necessary for entry-level inspection responsibilities. The course will apply to construction of municipal infrastructure and civil engineering type projects.

PWM 55 Public Works Administration (3.00)
3.00 hours lecture
Corequisite (Course required to be taken concurrently):
Grading: Grade/Pass/No Pass
Provides an introduction to the organizational concepts used by the Public Works Department. Content includes typical organization, management concepts, political considerations, planning, financial management and public relations.

PWM 57 Plan Interpretation and Cost Estimating (3.00)
3.00 hours lecture
Grading: Grade/Pass/No Pass
Provides a basic introduction into reading and interpreting construction plans related to public works and street improvement projects. Will provide the student with the fundamental understanding of how construction plans relate to actual construction and how to use the plans to determine the quantity of materials needed to complete the work proposed on the plans and to estimate a cost for the completion of the work.

RE-Real Estate

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

RE 100 Real Estate Principles (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Real Estate Principles is a fundamental course covering the basic laws and principles of California Real Estate. It provides the student with the knowledge, background and terminology necessary for advanced study in further specialized real estate courses. This course will benefit both the consumer and career-minded individual. It is designed to assist those preparing for the real estate license examination.

RE 105 Real Estate Finance (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Analysis of real estate financing, including lending policies and problems in financing transactions in residential, apartment, commercial, special purpose properties and land. Conventional and governmental programs are emphasized.

RE 110 Real Estate Appraisal (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
An introductory course covering the purposes of appraisals, the appraisal process, and the different approaches, methods, and techniques used to determine the value of various types of property. Emphasis will be on residential and single-unit property.

RE 111 Advanced Real Estate Appraisal (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This introductory course provides the techniques necessary for completing the sales comparison and income capitalization approaches of the valuation process. Students develop and apply qualitative and quantitative analysis techniques as well as organize and reconcile data. In addition, students develop proficiency in utilizing residential income property appraisal guidelines to create a standard appraisal form. Uniform Standards of Professional Appraisal Practice (USPAP) ethics will also be covered.

RE 115 Real Estate Practice (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Day to day operations in real estate roles and brokerage, including listing, prospecting, advertising, finance, taxation, investing, sales techniques and escrow. Class will include professional behavior and ethics.

RE 120 Legal Aspects of Real Estate (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
A study of California real estate law, including an overview of the sources of law in the U.S. legal system, agency, contracts, and rights incident to property ownership and management, including title, transfer, encumbrances, probate and foreclosure proceedings. Qualifies as an educational elective for the California Salesperson or Broker examination.

RE 140 Introduction to Property Management (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
A practical approach to the principles and practices of managing income properties, including leasing, collections, and rent schedule; budget and purchasing, market economics; evictions; maintenance; taxation; and record keeping.

RE 150 Residential Appraisal (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course provides specialized training for licensed real estate salespersons, brokers, and appraisers in the methods and techniques used to evaluate residential property. Students will examine and apply highest and best use analysis, the cost, sales comparison, and income approaches to value, and reconciliation of value indicators to valuation problems involving residential property. Specialty residential property types and markets are also discussed.

READ-Reading

To satisfy a prerequisite, the student must have earned a letter grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

READ 50 Reading Improvement (4.00)
3.00 hours lecture - 3.00 hours lab
Grading: Grade/Pass/No Pass
Designed to improve reading skills. Individual reading problems are diagnosed and improved through a variety of instructional materials and reading techniques. For students who need to remedy difficulties with reading comprehension, vocabulary, and fluency.

READ 105 Academic Reading (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course focuses on developing specific reading strategies to support success within academic courses and career technical courses. Emphasis is placed on constructing meaning, analyzing, and synthesizing diverse text types, as well as exploring the relationship between strong reading skills and the physiological, psychological, and sociological aspects of life-long learning.

READ 110 Power Reading (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Intended for students with reading competencies who wish to enhance their reading ability by increasing reading speed, comprehension, fluency, vocabulary, and critical analysis. For students who do not have reading comprehension and vocabulary difficulties.

READ 120 Critical Reading (3.00)
3.00 hours lecture
Recommended Preparation: READ 110
Transferability: CSU
Grading: Grade/Pass/No Pass
Conceptual examination and application of critical reading, critical thinking, analysis, and logical reasoning across diverse sources. Emphasis on advanced critical reading, logical reasoning/thinking, reflective judgment, and problem-solving skills that will lead to the ability to interpret, analyze, critically evaluate, and advocate ideas.

READ 197 Reading Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Reading. See Class Schedule for specific topic offered. Course title will designate subject covered.

READ 205 Critical Reading for Analytical Thinking (3.00)
3.00 hours lecture
Prerequisite: ENGL C1000, or ENGL C1000E, or ESL 110
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course provides instruction in the strategies and skills needed for critical reading, logical thinking, and analysis of writing. Emphasis is placed on the ability to analyze, criticize, and advocate for ideas; to reason inductively and deductively; and to identify the assumptions in written material by identifying claims and support, identifying patterns of logic and reason, and identifying truth versus falsehoods or logical errors. Enables students to approach all academic disciplines with critical reading and analytical thinking skills.

RS-Religious Studies

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

RS 101 World Religions (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A comparative study of the practices, beliefs, institutions, and core characteristics of the major religions of the world: Western, Asian, and indigenous.

RS 102 Religion in American History (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Examines the role of religion and religious groups in key events, time periods, regions, and institutions of the United States. The course concentrates on the interaction of religious groups with each other and with the larger society, particularly in relation to political, economic, geographical, and cultural life of the nation. Topics include colonialism, the Revolution, anti-slavery, the expansion west, the Civil War, immigration, the World Wars, the Great Depression, the Civil Rights Movement, and the 1960s.

RS 103 Religion and American Political Institutions (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Study of relations between religion, religious communities, and political institutions in the United States and California. The course examines political institutions and processes under the U.S. and California Constitutions, the influence of religion and religious communities on these institutions and processes, and the influence of these institutions and processes on religious communities, especially related to the rights and obligations of citizenship. Topics of study include freedom of religion, civil rights and citizenship, the political and religious philosophies of the framers of the U.S. Constitution, Constitutional documents as sources of civil religion, religion and immigration, separation of church and state, religion in public education, war and religion.

RS 105 Ritual/Symbol/Myth: Introduction to Religion (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The course introduces students to the religious dimensions of ritual, symbol, and myth in order to explore the nature of religion in traditional settings and in the popular cultures of the present.

RS 108 History of Christianity (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A survey of movements, institutions, and communities in the history of Christianity from the first century to the twentieth century. Concentrates on socio-political influences, contexts, and consequences related to Christian history.

RS 110 Religion in America (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduces students to core practices, beliefs, and institutions of religions in the United States. The course also focuses on the interactions of religious communities with national culture of the United States, particularly in regards to social factors of race, ethnicity, class, age, and gender. Study concentrates on "religion" associated with Native Americans, Asian Americans, Latinos, African Americans, Jewish communities, Roman Catholics, Protestants, Muslims, Buddhists, and a variety of others.

SOC-Sociology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

SOC 100 Introduction to Sociology (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A study of the principles and problems pertaining to group behavior, the relationships among human beings, the development and nature of institutions, and the structure of society.

SOC 105 Marriage, Family and Intimate Relationships (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: PSYC 105
A study of the psychology and sociology of the family and intimate relationships. Emphasizes factors that enhance interpersonal relationships. Topics include love, marital choice, communication, conflict, and changing models of the family. Examines cross-cultural and historical factors that impact the family as a social institution and the impact of gender, race and ethinicity, social class, age, and sexual orientation on family organization.

SOC 110 Social Problems (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Identification and analysis of contemporary social problems in the United States, with emphasis on the sociological factors involved. Topics include poverty and economic inequality; gender inequality; racial and ethnic inequality; problems in the family, government, education, and the economy; crime; drug use; warfare and violence, among others. A critical evaluation of the causes and solutions.

SOC 115 Introduction to Women's Studies (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
The study of the position of women in American society from a sociological and cultural perspective. Topics to be studied include the theoretical approaches to studying gender; the impact of race and ethnicity, class, nationality, and sexual orientation on women's lives; cross-cultural variations in gender roles; the socialization of women; women's role in the major social institutions - the family, education, the political system, religion, the economy, and the mass media; violence against women; and feminism as a social movement.

SOC 125 Human Sexuality (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: PSYC 125
Survey of topics pertinent to an understanding of the development of human sexuality. Emphasis on biological, psychological, and cultural determinants of sexual behavior. Current sex norms and various aspects of interpersonal and individual sexual adjustment.

SOC 130 Introduction to Sociology of Health (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course presents a broad introduction to sociological concepts and ideas related to the study of health and medicine in the United States. Emphasis will be on understanding the relationship between social factors and health, the cultural meanings associated with health and illness, the social behavior of health care personnel and people who utilize health care, the political controversies surrounding health care, and the structure of social institutions that form the health care industry. Throughout the course, there will be a focus on culture (African Americans, Latinos/Latinas), gender, age, socioeconomic status, sexual orientation and disabilities and how these factors influence the experience of health and illness.

SOC 135 Gender and Society (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID SOCI 140
What does it mean to be a man or a woman in today's society? This course is an introduction to the study of gender and society. Its focus will be on changes and continuities in the gender roles of men and women and on the role of gender as an organizing principle of contemporary social life. We will examine theoretical approaches to explaining gender, the impact of race, ethnicity, social class, and sexual orientation on conceptions of gender and the impact of gender on interactions in everyday life. As we explore these themes, we will study how culture, the family, the economy, the political system, mass media and the legal system have shaped and in turn are shaped by gender roles.

SOC 145 Psychology and Sociology of Aging (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: PSYC 145
A multi-disciplinary approach to the field of gerontology; historical, demographic, psychological, and sociological aspects of aging.

SOC 150 Introduction to Alcohol and Other Drug Studies (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: AODS 150, PSYC 150
Examines alcohol, tobacco, and psychoactive drugs in society. Biological, psychological and socio-cultural factors of drug abuse and dependence will be explored. The impact of addiction on families and society; contemporary treatment techniques, and the addiction counseling profession will be covered.

SOC 155 The Physiology and Pharmacology of Psychoactive Drugs (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: AODS 155, PSYC 155
This course will examine how psychoactive drugs affect the nervous system. Ways of classifying drugs will be identified including the processes of physical and psychological dependence, tolerance, withdrawal, and genetic predispositions. Temporary and long-term affective, behavioral, cognitive, biological, and social consequences of psychoactive drug use will be explored, including disorders such as Korsakoff's syndrome and other nutritional deficiencies.

SOC 165 Self and Society (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Explores how behaviors, thoughts, and emotions of individuals are created and modified by the social and cultural conditions in which they live. The framework is a theoretical perspective called symbolic interaction. Its focus is on how interactional dynamics shape our behavior and our sense of who we are and what we can do. We use a multicultural approach to understanding the social construction of the self in society. We will analyze issues of identity and equality as they relate to social class, disability, sexual orientation, and among people of color(specifically African Americans and Latinos/Latinas).

SOC 170 Introduction to Justice Studies (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is an introduction to the interdisciplinary field of Justice Studies. An analysis of justice will be explored using sociological, philosophical, historical, and legal perspectives and methodologies. The course will emphasize social justice issues in the United States, with an emphasis on systems of inequality that affect people of color, women and other marginalized groups.

SOC 175 Introduction to LBGTQI Studies (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This multicultural introductory course examines a range of gay, lesbian, bisexual, transgender, intersex and queer issues from a multicultural perspective. This interdisciplinary course introduces students to contemporary issues, theories and research findings using a sociological lens to focus on social institutions, history, politics, social movements and resistance. The course explores biological and environmental impacts on identity, equity, equality and inclusion, privilege, disadvantage, queer activism and the diverse racial, ethnic, social class and gendered experiences of sexuality. The class will focus strongly on representations in literature, art and popular culture, from a wide variety of multicultural perspectives, in particular perspectives from people of color and those from marginalized racial, ethnic and other groups that span the diverse experiences of the LBGTQI community.

SOC 180 Social Justice Statistics (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of PSYC/SOC 205, BUS 204, or any course between MATH 100 and 245 (excluding MATH 197) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This is an introductory course on elementary statistics for social justice. Emphasis is placed on basic data analysis techniques as well as statistical and probability concepts. Topics include descriptive statistics; probability and sampling distributions; statistical inference; hypothesis testing; t-tests, analysis of variance, and chi-square; correlation and simple linear regression; and computer technology for statistical analysis based on a social justice lens applied to Social and Behavioral Sciences, Administration of Justice, Political Science, Health Science, Economics, Business, Education, and other related fields.

SOC 197 Special Topics in Sociology (1.00-3.00)
1.00-3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Current topics in sociology will be discussed in lecture or seminar formats. Issues in such areas as deviance, stratification, demography, gender roles, death and dying, new immigrant groups, and others will be analyzed in cultural context from various theoretical perspectives. Content will vary from semester to semester.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. May be transferable to UC upon UC's review of the course syllabus.

SOC 200 Race, Class, and Ethnic Groups in America (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: AMS 200, MCS 200
This course is designed to introduce the topics of intergroup relations in general to superordinate-subordinate relations in particular, as exemplified in various racial, ethnic, social class, and cultural groups. Emphasis is primarily on contemporary relations in the United States, although a comparative perspective is also offered.

SOC 205 Statistics for the Behavioral Sciences (4.00)
4.00 hours lecture
Prerequisite: Completion of intermediate algebra or the equivalent, or eligibility or completion of PSYC/SOC 205, BUS 204, or any course between MATH 100 and 245 (excluding MATH 197) based on multiple measures.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: PSYC 205
Quantitative and qualitative methods as applied to behavioral science data. Frequency distributions, measures of central tendency, variability, hypothesis testing, measures of probability and significance, correlation, regression, and inferential statistics. Also included are data entry, graphing, statistical analysis, and interpretation of data using word processing, spreadsheet, and statistical software.

SOC 210 Research Methods for Sociology (3.00)
3.00 hours lecture
Prerequisite: SOC 100; **Recommended Preparation:** SOC 180, or PSYC 205, or SOC 205
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-SOCI 120
Introduces empirical scientific methods for the social sciences with a focus on the nature of theory, research ethics, application of quantitative and qualitative analytical tools including surveys, interviews, field research, participant observation, experimental, case study, demographic methods, and comparative historical research.

SPAN-Spanish

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

SPAN 101 Spanish I (5.00)
5.00 hours lecture - 1.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
First semester of Spanish. A study of the Spanish language and Spanish-speaking cultures, with emphasis on the development of communicative skills and basic structures. Focus is on teaching elementary-level language acquisition in a cultural context through listening, speaking, reading and writing. Interacts with authentic language in context. Combines in-class instruction and practice with self-paced study in the World Languages laboratory. No previous experience in Spanish is required.

SPAN 101A Spanish IA (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Equivalent to the first half of Spanish 101. A study of the Spanish language and Spanish-speaking cultures, with emphasis on the development of communicative skills and basic structures. Focus is on teaching elementary-level language acquisition in a cultural context through listening, speaking, reading and writing. Interacts with authentic language in context. No previous experience in Spanish is required.

SPAN 101B Spanish IB (3.00)
3.00 hours lecture
Prerequisite: SPAN 101A, or one year of high school Spanish
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Spanish 101B is equivalent to the second half of Spanish 101. A study of the Spanish language and Spanish-speaking cultures, with emphasis on the development of communicative skills and basic structures. Focus is on teaching elementary-level language acquisition in a cultural context through listening, speaking, reading and writing. Interacts with authentic language in context.

SPAN 102 Spanish II (5.00)
5.00 hours lecture - 1.00 hours lab
Prerequisite: SPAN 101, or SPAN 101B, or two years of high school Spanish
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Second semester of Spanish. A study of Spanish language and Spanish-speaking cultures, with continued emphasis on the development of communicative skills and basic structures. Continues focus on teaching elementary-level language acquisition in a cultural context through listening, speaking, reading and writing. Interacts with authentic language in context. Combines in-class instruction with self-paced study in the World Languages laboratory.

SPAN 201 Spanish III (5.00)
5.00 hours lecture - 1.00 hours lab
Prerequisite: SPAN 102, or three years of high school Spanish
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Third semester of Spanish. A study of the Spanish language and Spanish-speaking cultures with an emphasis on structures and readings of culturally relevant authentic materials. Focus in on teaching culture and facilitates intermediate-level language acquisition through listening, speaking, reading and writing. Students will continue to interact with authentic language in context. Combines in-class instruction with self-paced study in the World Languages laboratory. Class is largely conducted in Spanish.

SPAN 202 Spanish IV (5.00)
5.00 hours lecture
Prerequisite: SPAN 201; four years of high school Spanish
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Fourth semester of Spanish. A continued study of the Spanish language and Spanish-speaking cultures, focusing on the refined use of intermediate-level structures and readings of culturally relevant authentic materials. Emphasis is on the expansion of cross-cultural awareness, as well as, the development of language skills in order to acquire communicative competence in Spanish. Teaches culture and facilitates language acquisition through listening, speaking, reading and writing. Interacts with more sophisticated authentic language in context. Conducted in Spanish.

SPAN 211 Spanish for Heritage Speakers I (5.00)
5.00 hours lecture - 1.00 hours lab
Limitation on Enrollment (e.g. Performance tryout or audition): Not open to students with prior credit in Span 201.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is designed for heritage speakers of Spanish, or other linguistically qualified students, who speak Spanish and who need to improve their writing, reading, and grammar skills. Emphasis is on the mastery of written and spoken communication skills in Spanish at the intermediate level, and the study of Spanish-speaking cultures through relevant, authentic materials in context. The course includes a focus on language challenges particular to Spanish speakers such as orthography, the inappropriate mix of English and Spanish in certain contexts, and contrasts between standard Spanish and regional variations. Course combines in-class instruction with self-paced study in the World Languages laboratory. This course is conducted entirely in Spanish. Limitation on Enrollment: This course is not open to students with previous credit for Spanish 201.

SPAN 212 Spanish for Heritage Speakers II (5.00)
5.00 hours lecture
Prerequisite: SPAN 211, or four years of high school Spanish
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Course is designed for heritage speakers of Spanish or other linguistically qualified students. Continues to provide instruction that builds upon the existing reading, writing, speaking and listening skills and the cultural heritage and knowledge of Spanish-speaking students. Continues to increase awareness of linguistic registers and expand vocabulary toward the advanced level. Practice in expository and creative writing based on culturally relevant readings and critical thinking. Develops an appreciation for Hispanic and Latino cultures as manifested in Spanish speaking countries and in the United States. This course is entirely conducted in Spanish.

SPAN 235 Intermediate Conversation and Writing (3.00)
3.00 hours lecture
Prerequisite: SPAN 201, or SPAN 211, or four years of high school Spanish.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
An intermediate-level study of the Spanish language and Spanish-speaking cultures. Focus is on developing oral and written proficiency within a cultural context.

SPCH-Speech

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

SPCH 100* Oral Communication
See COMM C1000 Introduction to Public Speaking

SPCH 105 Beginning Argumentation and Critical Thinking (3.00)
3.00 hours lecture
Prerequisite: ENGL C1000, or ENGL C1000E, or ESL 110
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID COMM 120
Argumentative theory and practice including burden of proof, logical analysis, research, types and uses of evidence, deductive and inductive reasoning, logical fallacies, written argumentative essay construction, refutation, rebuttal, and argument evaluation paradigms. Advanced written communication skills are developed through composing, drafting, reviewing, and rewriting (1) analytical topic area essays, (2) affirmative and negative critical analysis, and (3) substantive and sequential written essays. Oral communication skills are developed through the agency of public argument and critical thinking exercises. Critical perspectives on values and public policy, including examinations of diverse paradigms are emphasized.

SPCH 115 Interpersonal Communication (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Introduction to the fundamental principles and terms of communication study in the interpersonal or face-to-face context. Analysis of communication patterns in developing, stable, and deteriorating relationships. Topics include communication rules and competence, perception and empathy, love, and family interaction.

SPCH 120 Human Communication (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A comprehensive introduction to the study of human communication processes including verbal and nonverbal modalities. Human abilities are compared to the communication systems of other species. Key definitions and concepts in communication theory are reviewed. Communication processes in personal, public, and mass-mediated contexts are analyzed.

SPCH 125 Beginning Oral Interpretation (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: TA 125
An introduction to the oral reading of prose, poetry, and drama in distinct and intertextual formats. Models of critical analysis will be applied to written literature and reading will be performed and evaluated by applying principles of effective delivery.

SPCH 131 Intercultural Communication (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID COMM 150
Introduction to the fundamental principles and terms of communication study in intercultural or cross-cultural contexts. Analysis of the opportunities and problems presented by national, ethnic, linguistic, and gender-based variation in verbal and nonverbal behaviors.

SPCH 145 Management of Speech Activities (1.00)
3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Planning, preparation, management, and supervision of speech tournaments and other interscholastic speech activities.

SPCH 150 Debate Research (1.00)
3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Advanced debate training including investigation and research of the national intercollegiate debate resolution.

SPCH 160 Practical Public Speaking (1.00)
3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Thorough individual preparation for effective oral communication in a variety of speech situations. This class will make up the college forensics team and the student speaker's bureau; students will be selected from classes in the speech curricula. Required of all students participating in intercollegiate competitive speech activities.

SPCH 170 Small Group Communication (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-COMM 140
This course is a study of the concepts, theories, and practices related to group formation, development, and basic group communication dynamics. Students lead and participate in various forms of group interaction, evaluation, and practice. This course is designed for communication studies and business majors as well as for anyone interested in working effectively in small group settings.

SPCH 197A Topics in Speech Communication (1.00-3.00)
1.00-3.00 hours lecture - 3.00-9.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Topics in Speech Communication. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. May be transferable to UC upon UC's review of the course syllabus.

SPCH 290 Competitive Intercollegiate Forensics (3.00)
9.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 12.00 total units
Grading: Grade/Pass/No Pass
Advanced projects including individual research. Tutoring and performance for college classes and community including reader's theatre; informative, persuasive, entertaining, extemporaneous, and impromptu speaking; communication analysis, prose, poetry, duo-interpretation, programmed reading, and debate.
Notes:
May be transferable to UC upon UC's review of the course syllabus.

STAT-Statistics

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

STAT C1000 Introduction to Statistics (4.00)
4.00 hours lecture
Prerequisite: Placement as determined by the college's multiple measures assessment process or completion of a course taught at or above the level of intermediate algebra.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-MATH 110
This course is an introduction to statistical thinking and processes, including methods and concepts for discovery and decision-making using data. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-squared, and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Students apply methods and processes to applications using data from a broad range of disciplines. Students who receive credit for STAT C1000 may not receive credit for STAT C1000E.
Notes:
Formerly MATH 120

STAT C1000E Introduction to Statistics (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: Placement as determined by the college's multiple measures assessment process or completion of a course taught at or above the level of intermediate algebra.
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is an introduction to statistical thinking and processes, including methods and concepts for discovery and decision-making using data. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-squared, and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Students apply methods and processes to applications using data from a broad range of disciplines. This course has embedded support. Active learning techniques involving multiple modalities that include individual and/or group active learning projects/activities and/or student presentations will be used. Students who receive credit for STAT C1000E may not receive credit for STAT C1000.
Notes:
Formerly MATH 120E

SWHS-Social Work and Human Services

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

SWHS 100 Introduction to Social Work and Human Services
(3.00)
3.00 hours lecture
Transferability: CSU
Note: May be taken up to 2 times for up to 6.00 total units
Grading: Grade/Pass/No Pass
An introductory overview of social welfare and the societal institutions in the U.S. that structure the provision of social services. The course presents a historical perspective on the development of U.S. social work and human services. Special attention is given to current service delivery systems, their policies and procedures, and the tasks of culturally responsive social workers and human service workers within those settings.

SWHS 120 Social Work and Human Services Fields of Service
(3.00)
3.00 hours lecture
Transferability: CSU
Note: May be taken up to 2 times for up to 6.00 total units
Grading: Grade/Pass/No Pass
This course is an introduction to the major fields of social work and human services practice in institutions, public and private agencies and other community settings. Students examine and differentiate between the predominant settings in which social work and human services is practiced and the role of social work in contemporary society in relation to social injustice, diversity, cross-cultural issues and economic factors.

TA-Theatre Arts

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

TA 100 Introduction to the Theatre (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Theatre texts, processes and performances create a mirror that reflects an image of the world. This course actively engages students through the language, tools and processes of theatre to examine and encounter our world and to articulate insights about human behavior, experience, culture & society.

TA 106 Fundamentals of Costume Design (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A foundational course providing the fundamental practices, theories, techniques and procedures of costume design and technology for film, television, and theatre. This course will introduce students to the structure of a working costume shop, basic hand and machine sewing techniques, textile identification, basic garment fitting, simple pattern modification, and production wardrobe crew procedures. Through a series of practical costume projects, students will develop skills in design theory, drawing techniques, and script analysis abilities. Additional work-based learning incorporated during the course of study via practical training in the college Performing Arts productions.

TA 107 Lighting for Stage and Television (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID THTR 173
Techniques, theories, and procedures necessary to develop lighting and lighting effects integrated into film, television, and theatre productions. Practical experience in college productions.

TA 108 Stagecraft and Scene Design for Theatre and Television
(3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID THTR 172
Technical practices and organization of production for theatre, film, and television. Practice in drafting, designing, and construction of scenery for college productions.

TA 109 Introduction to Stage Makeup (3.00)
2.00 hours lecture - 4.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID THTR 175
Foundational course providing the fundamental practices, theories, techniques, and procedures of make-up production for film, television, and theatre. Through a series of practical makeup projects, students will develop skills in design theory, drawing techniques, script analysis, and the application of a wide range of makeup styles appropriate for personal and professional use. Students will also have opportunities for practical training in college productions.

TA 111 Technical Theatre Production (0.50)
1.50 hours lab
Prerequisite: (Completion of, or concurrent enrollment in): TA 106; TA 107, or TA 108, or TA 109
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Techniques and procedures of planning and coordination through all phases of the technical theatre production process. Practical training through college production.

TA 113A Improvisational Theatre I (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Improvisational theatre techniques for various forms that engage the audience in an interactive performance setting. The course includes basic skills for creating and sustaining improvised situations as well as improvisational structures that challenge the participant's skills. Also included are improvisational structures that will reflect and analyze societal situations of conflict found in the participants' lives and communities.

TA 113B Improvisational Theatre II (3.00)
3.00 hours lecture
Prerequisite: TA 113A
Transferability: CSU
Grading: Grade/Pass/No Pass
Advanced skills for creating, performing and facilitating improvisational and interactive theatre events.

TA 115 Acting I (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID THTR 151
In a workshop environment, the student will learn the basic tools and terminology of acting. The student will apply this knowledge and experience to the performance of short scenes.

TA 116 Acting II (3.00)
3.00 hours lecture
Prerequisite: TA 115
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID THTR 152
This course follows Acting I and continues the exploration of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process. Designed to improve the actor's skills for performing scenes and monologues with truth and power. Actors will improve their ability to pursue the character's needs and objectives, to be vulnerable to their partners' words and actions, and to create a wide range of emotion. Actors in this class will continue to develop their vocal and physical technique.

TA 119 Voice and Speech (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
A practical and experiential class introducing students to exercises and theories of voice and speech production leading to improved power, expressiveness and clarity. Methodology will include major contemporary approaches to developing the actor's voice.

TA 125 Beginning Oral Interpretation (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Cross listed as: SPCH 125
An introduction to the oral reading of prose, poetry, and drama in distinct and intertextual formats. Models of critical analysis will be applied to written literature and reading will be performed and evaluated by applying principles of effective delivery.

TA 150 Dramatic Literature and Script Analysis (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
This course is designed to allow the student to explore, understand, and appreciate a diverse range of play scripts. Using investigative techniques [e.g. scrutinizing the playwright's methods of creating theatre through plot, character and imagery, and understanding how scripts convey meaning to the professional theatre artist and theatre-goer as distinct from other forms of literature], the student will gain new insights into how to read, use, and create a play script.

TA 160 Beginning Stage Direction (3.00)
3.00 hours lecture
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Training in the principles, procedures, and methods of stage direction. Students will serve as assistant directors on college productions and will also direct scenes for acting classes and studio productions.

TA 173 Musical Theatre Scenes I (1.00)
3.00 hours lab
Transferability: CSU
Note: May be taken up to 4 times for up to 4.00 total units
Grading: Grade/Pass/No Pass
Cross listed as: MUS 173, DNCE 173
Rehearsal and performance of solo and group scenes from Broadway musicals dating from the 1930's to the present.

TA 174 Musical Theatre Scenes II (1.00)
3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: DNCE 174, MUS 174
A continuation of Musical Theatre Scenes I. A deeper exploration into the acting, singing, and dancing necessary for Broadway Musicals from the 1930's to present.

TA 182 Introduction to Arts Management (3.00)
9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: DNCE 182, AMS 182, ART 182, MUS 182
An introduction to the principles and practices of arts management through an interdisciplinary study of management topics in the visual and performing arts.

TA 183 Internship in Arts Management (3.00)
9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: DNCE 183, ART 183, MUS 183, AMS 183
Practical experience in arts management in the visual and performing arts.

TA 184 Creative Theatre Ensemble (1.00-2.00)
3.00-6.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Students in theatre and allied disciplines work collaboratively on creating an original devised theatre performance or on an existing text that requires an ensemble approach to the performance.

TA 191A Rehearsal and Performance I (1.00-2.00)
3.00-6.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID THTR 191
An initial experience of the rehearsal and performance of a departmental theatre production. Generally this would involve an ensemble, non-speaking or small supporting role.

TA 191B Rehearsal and Performance II (1.00-2.00)
3.00-6.00 hours lab
Prerequisite: TA 191A
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID THTR 191
Second experience of the rehearsal and performance of a departmental theatre production. Generally this would involve a small to medium supporting role in the production.

TA 191C Rehearsal and Performance III (1.00-2.00)
3.00-6.00 hours lab
Prerequisite: TA 191B
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID THTR 191
Third experience of the rehearsal and performance of a departmental theatre production. Generally this would involve a medium supporting role or leading role in the production.

TA 191D Rehearsal and Performance IV (1.00-2.00)
3.00-6.00 hours lab
Prerequisite: TA 191C
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
CID-C-ID THTR 191
Fourth experience of the rehearsal and performance of a departmental theatre production. Generally this would involve a large supporting role or lead role in the production.

TA 192A Technical Theatre in Production 1 (1.00-2.00)
3.00-6.00 hours lab
Transferability: UC/CSU
Note: May be taken up to 4 times for up to 8.00 total units
Grading: Grade/Pass/No Pass
Students will gain practical experience in the application of skills to the responsibilities of various stage crew positions in a theater production. Students will learn to use the specialized equipment and develop skills determined by the specific requirements of the production. In addition students will learn and practice the protocols associated with professional theater productions and the collaborative culture of theatre-making. Students will also learn about career opportunities in Technical Theatre Production. 54 hours of production experience are required each unit of course credit.

TA 192B Technical Theatre in Production 2 (1.00-2.00)
3.00-6.00 hours lab
Prerequisite: TA 192A
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Students will gain practical experience in the application of production responsibilities in the stage crew. Students will also observe and evaluate the production responsibilities of the technical staff.

TA 192C Technical Theatre in Production 3 (1.00-2.00)
3.00-6.00 hours lab
Prerequisite: TA 192B
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Students will gain practical experience in the application of production responsibilities in the technical staff. Students will also observe and evaluate the production responsibilities of the leadership roles in the technical staff.

TA 192D Technical Theatre in Production 4 (1.00-2.00)
3.00-6.00 hours lab
Prerequisite: TA 192C
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Students will gain practical experience in the application of production responsibilities in a leadership role in the technical staff. Students will also observe and evaluate the production responsibilities of the design staff.

TA 197E Management of Theatre Activities (0.50-3.00)
1.50-9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
The principles of organization, operation, and planning for theatre management including programming, ticket sales, box office records and promotional news release writing. Practical use applied to theatre productions.

TA 197F Theatre Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Topics in theatre. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule. May be transferable to UC upon UC's review of the course syllabus.

TA 215 Acting III (3.00)
3.00 hours lecture
Prerequisite: TA 116
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Emphasizes analysis of literary text and physical methods in the process of creating characters. Scene study and role preparation of significant texts by modern playwrights.

TA 216 Acting IV (3.00)
3.00 hours lecture
Prerequisite: TA 116
Transferability: UC/CSU
Grading: Grade/Pass/No Pass
Advanced topics in acting technique including approaches to style and contemporary innovations in acting methods.

WELD-Welding

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

WELD 100 Welding I (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to safe practices, setup, and operation of Shielded Metal Arc Welding, Gas Tungsten Arc Welding, Flux Core Arc Welding, and Gas Metal Arc Welding.

WELD 108 Technical Mathematics (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Cross listed as: IT 108
Methods and experience in defining and solving mathematical problems in industrial technology. Special emphasis will be given to the application of these basic processes to the solution of the unique mathematical problems encountered in the areas of architecture, automotive, drafting, machine, welding, and woodworking technology.

WELD 110 Shielded Metal Arc Welding (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Welding steel plate in all positions using the Shielded Metal Arc Welding process.

WELD 115 Gas Tungsten Arc Welding (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Safe setup, operation, and maintenance of Gas Tungsten Arc Welding equipment. Welding stainless steel, carbon steel, and aluminum in the flat and horizontal positions.

WELD 120 Gas Metal Arc and Flux Cored Arc Welding (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Gas Metal Arc Welding steel and aluminum sheet metal, and plate with short arc and spray arc technique. Flux Cored Arc Welding steel plate in flat, horizontal, and vertical positions.

WELD 135 Print Reading for Welders (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Line interpretation, sketching, bill of materials, structural shapes, welding symbols, joint types, weld types, and metric conversions.

WELD 140 Qualification of Welders (3.00)
1.50 hours lecture - 4.50 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Designed to train the students to be familiar with the provisions of the various welding standards and codes. Supervised training is provided so that students will be able to qualify for certification on any code or standard.

WELD 145 Pipe Welding (3.00)
1.50 hours lecture - 4.50 hours lab
Prerequisite: WELD 110
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides a thorough technical understanding of pipe welding nomenclature, weld quality, and pipe fit-up and welding procedures. Provides training to develop welding skills necessary to make high quality welds on steel pipe in the 2G, 5g and 6G positions using SMAW, GMAW and FCAW-G.

WELD 150 Welding Inspection (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Designed to improve understanding of the role, duties, and technical requirements of welding inspectors. The course will cover topics in fundamentals of welding, welding symbols, documents used in welding, codes, specification, standards, weld joint geometry, destructive testing methods, nondestructive testing methods, discontinuities, and visual inspection of welds. Provides knowledge useful for passing the American Welding Society's Certified Welding Inspector's exam.

WELD 160 Metal Layout for Fabrication (3.00)
2.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides students with knowledge of basic layout, fitup, fabrication, and safe operation of shop equipment. Parallel line, radial line, and triangulation layout will be taught. Students will work from drawings or sketches to prepare, form, or cut multiple parts for assembly.

WELD 161 Mechanical Design for Welded Assemblies (3.00)
2.00 hours lecture - 3.00 hours lab
Prerequisite: WELD 160
Transferability: CSU
Grading: Graded Only
Students will use Computer-Aided Design (CAD) software to design welded assemblies in preparation for fabrication and additive manufacturing industries. This class introduces students to Computer-Aided Manufacturing (CAM) programming to use CNC cutting and forming equipment.

WELD 197 Welding Technology Topics (0.50-3.00)
0.50-3.00 hours lecture - 1.50-9.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Welding Technology. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

WTE-Water Technology Education

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

WTE 51 Career Pathways in Water Technology (3.00)
3.00 hours lecture
Grading: Graded Only
Provides an introduction into the water industry and highlights career pathways. Students will learn about position qualifications and the state certification requirements. Current water industry challenges and solutions will be discussed in relevancy to future industry needs. Students will also prepare for the job recruitment process through creation of a resume and cover letter, completion of a mock interview, and final presentation.

WTE 102 Fundamentals of Water and Wastewater (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course introduces students to the water and wastewater fields and issues confronting the industry. Students will learn how source waters are obtained, treated, and distributed and how wastewater is collected, transported, and disposed of in the area. Contemporary issues facing the water and wastewater industry will also be explored.

WTE 149 Calculations in Water/Wastewater Technology (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides instruction in entry-level to intermediate-level mathematical calculations used in the operation and evaluation of conventional water/wastewater treatment processes and water distribution systems. The course content has been developed to meet requirements for entry to water/wastewater education program courses. Course will cover basic geometry, metric conversions, flows, pressure, and chemical dosage as it relates to the water/wastewater industry. Material will parallel some problems found on State certification examinations.

WTE 152 Water Distribution Systems (3.00)
3.00 hours lecture
Prerequisite: (Completion of, or concurrent enrollment in): WTE 149
Transferability: CSU
Grading: Grade/Pass/No Pass
Provides an introduction to water utility system operations and maintenance. An introduction to the principles of pressure pipe systems and the hydraulics involved in their operation. Design, installation, operation, and maintenance of basic elements of water systems including pipes, pumps, valves, meters, and related hydraulic units. Evaluation of operations, maintenance, and safety programs to compose a holistic operational plan. This course prepares students for the State of California - Water Distribution Operator Grade I, Grade II, and Grade III exams.

WTE 153 Basic Plant Operations: Wastewater Treatment (3.00)
3.00 hours lecture
Prerequisite: (Completion of, or concurrent enrollment in): WTE 149
Transferability: CSU
Grading: Grade/Pass/No Pass
This course provides an introduction to conventional wastewater treatment plant operations. Topics covered include: the various origins and characteristics of wastewater; an overview of wastewater collections systems; preliminary treatment; primary treatment; Secondary Treatment including activated sludge and fixed film; treatment ponds; disinfection; and laboratory procedures. Emphasis is given to the role of the operator through evaluation and analysis of problems typical of those found in Operator Certification examinations.

WTE 154 Basic Plant Operations: Water Treatment (3.00)
3.00 hours lecture
Prerequisite: (Completion of, or concurrent enrollment in): WTE 149
Transferability: CSU
Grading: Grade/Pass/No Pass
This course provides an introduction to water treatment plant operations in accordance with the Safe Drinking Water Act (SDWA). Special emphasis is given to implementation of the Surface Water Treatment Rule through USEPA approved filtration technology. Subject matter includes major provisions of the SDWA and its amendments; basic water chemistry; source water assessment; conventional treatment processes; treated water stability; waterborne diseases; public health protection; disinfection; and an introduction to math skills equivalent to those required of State of California Grade II water treatment plant operators. This class is helpful to those preparing for the Grade I and Grade II state examination.

WTE 155 Wastewater Collection Systems (3.00)
3.00 hours lecture
Prerequisite: (Completion of, or concurrent enrollment in): WTE 149
Transferability: CSU
Grading: Grade/Pass/No Pass
This course provides an introduction to wastewater collection systems. Content covered includes collection system equipment, pipeline cleaning and maintenance, system design, safety procedures, inspecting and testing procedures used in collections systems. Emphasis is given to the role of the collections worker and preparation for collections operator exams, such as that administered by the CWEA.

WTE 156 Intro to Electrical and Instrumentation Processes (3.00)
3.00 hours lecture
Prerequisite: (Completion of, or concurrent enrollment in): WTE 149
Transferability: CSU
Grading: Grade/Pass/No Pass
Introduction to basic electrical theory, applications, common uses, and real world examples of control systems and instrumentation used in water distribution, water and wastewater treatment plants; including switches, relays, alarms, motors, instrumentation, valve actuators, computers, and communication.

WTE 158 Backflow Tester Training (3.00)
2.50 hours lecture - 1.50 hours lab
Transferability: CSU
Note: May be taken up to 4 times for up to 12.00 total units
Grading: Grade/Pass/No Pass
Provides intensive training focused on the field testing procedures and diagnostics for backflow prevention devices and training in the recognition and abatement of cross connections in water and plumbing systems. Students will acquire the knowledge, skills, and abilities required to test as a certified backflow tester.

WTE 160 Public Works Management (3.00)
3.00 hours lecture
Transferability: CSU
Grading: Grade/Pass/No Pass
This course is designed to provide an overview of public works management and supervision. The main topics covered include: Organization, Decision Making, Coordination, Communication, Public Relations, Personnel Supervision, and Safety Programs. Special emphasis is given to personnel supervision including coaching, training, evaluation, discipline, team building, morale, and grievances. Safety programs and encouraging safe conditions, actions and attitudes are shaped by OSHA guidelines.

WTE 162 Cross Connection Specialist (3.00)
3.00 hours lecture
Transferability: CSU
Note: May be taken up to 2 times for up to 6.00 total units
Grading: Grade/Pass/No Pass
The study of the various levels of administrative and technical procedures necessary to operate a cross connection control program. Students will obtain the knowledge to become certified as a "Cross Connection Control Specialist" under the provisions set forth by the American Water Works Association.

WTE 164 Laboratory Analysis for Water/Wastewater (3.00)
2.50 hours lecture - 1.50 hours lab
Recommended Preparation: WTE 154
Transferability: CSU
Grading: Grade/Pass/No Pass
Prepares students to properly monitor public drinking water quality through study of: Federal and State regulations, laboratory analyses, types of contaminants, sample collection techniques and interpretation of monitoring data.

WTE 166 Motors, Pumps, and Hydraulics (3.00)
3.00 hours lecture
Prerequisite: (Completion of, or concurrent enrollment in): WTE 149, or **Recommended Preparation:** WTE 152
Transferability: CSU
Grading: Grade/Pass/No Pass
This course provides an in-depth look at how water is moved through the distribution system. Emphasis is given to the role of a maintenance technician and focuses on identification of problems encountered, causes of problems, corrective solutions, and repairs in the operation of pumps and motors. Administrative emphasis includes implementation of maintenance programs including scheduling and recordkeeping.

WTE 197 Water Technology Education Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Transferability: CSU
Grading: Grade/Pass/No Pass
Topics in Water Technology Education. See Class schedule for specific topic offered. Course title will designate subject covered. (Formerly WTE/WWT 97)

WTE 263 Advanced Plant Operations: Wastewater Treatment (3.00)
3.00 hours lecture
Prerequisite: WTE 153
Transferability: CSU
Grading: Grade/Pass/No Pass
A wastewater treatment and disposal course with an emphasis on control of these processes. Topics covered include: the activated sludge secondary treatment process and its variations; sludge digestion, treatment and disposal; safety and housekeeping; maintenance and an overview of effluent disposal, tertiary treatment and reclamation. Emphasis is also given to the role of the operator and provides preparation for solving process control calculations and problems typical of those found in Operator Certification examinations.

WTE 272 Water Distribution II (3.00)
3.00 hours lecture
Prerequisite: WTE 152
Transferability: CSU
Grading: Grade/Pass/No Pass
Intermediate and advanced instruction in the field of water distribution, types of reservoirs, water lines, pumps, valves, and related appurtenances. Studies design, proper operation, and facilities repair of a public water system. Provides instruction in methods of record keeping and administrative responsibilities related to water systems. This course prepares students for the State Water Resources Control Board Water Distribution Operator certification exams at levels D-3 and D-4 and the "American Water Works Association" certification exams for Grades II, III, and IV.

WTE 274 Advanced Plant Operations: Water Treatment and Reclamation (3.00)
3.00 hours lecture
Prerequisite: WTE 154
Transferability: CSU
Grading: Grade/Pass/No Pass
Advanced water quality control and treatment based on state regulations, EPA regulations, advanced mathematics and chemistry. Emphasis is given to recognizing, interpreting, and applying the Surface Water Treatment Rule, Total Coliform Rule, Interim Enhanced Surface Water Treatment Rule, Long Term 1 Enhanced Surface Water Treatment Rule, Long Term 2 Enhanced Surface Water Treatment Rule, Disinfection/Disinfection by Product Rule and Title 22 requirements for recycled water. This course will be helpful to those preparing for Grade III and IV drinking water examinations.

WWT-Wastewater Technology Education

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

WWT 97 Wastewater Technology Education Topics (0.50-4.00)
0.50-4.00 hours lecture - 1.50-12.00 hours lab
Grading: Grade/Pass/No Pass
Topics in Wastewater Technology Education. See Class Schedule for specific topic offered. Course title will designate subject covered.
Notes:
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and laboratory may be scheduled by the department. Refer to Class Schedule.

ZEVTEC-Zero Emissions Vehicle Technology

To satisfy a prerequisite, the student must have earned a grade of A, B, C, P, or CR in the prerequisite course, unless otherwise stated.

ZEVTEC 205 Hydrogen Fuel Cells and Systems (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Graded Only
This course covers hydrogen properties, use and safety, fuel cell technology and its systems, fuel cell engine design and safety, and design and maintenance of a heavy duty fuel cell bus engine. The different types of fuel cells and hybrid electric vehicles are presented. However, the system descriptions and maintenance procedures focus on proton-exchangemembrane (PEM) fuel cells with respect to heavy duty transit applications.

ZEVTEC 210 Steering, Suspensions & Frame (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Graded Only
This course will give students an understanding of the fundamentals of steering, suspensions and frames. This will also give students the best practices for maintaining wheeled equipment frames, suspensions and steering components.

ZEVTEC 215 Med/H.D. Mobile HVAC (4.00)
3.00 hours lecture - 3.00 hours lab
Transferability: CSU
Grading: Graded Only
This course will provide the basic principles of operation and servicing of modern ZEV air conditioning systems. Both lecture and lab time will be devoted to studying the refrigeration and heating system, ventilation and ducting, and the electrical systems. Upon completion of this course, students will be prepared and up-to-date on EPA Regulations, the AIM Act of 2020, R-1234yf, and 609 Certification. Testing for MACS (Mobile Air-Conditioning Society) licensure will be offered.

ZEVTEC 225 Troubleshooting & Repair of HIGH-VOLTAGE SYSTEMS (4.00)
3.00 hours lecture - 3.00 hours lab
Prerequisite: DMT 110, or ASE Certification L3 Light Duty Hybrid/ Electric Vehicle Specialist or ASE Certification School Bus Certification S6 – Electrical/Electronic Systems or ASE Automotive certification A6 – Electrical/Electronic Systems or ASE Transit Bus Certification H6 – Electrical/Electronic Systems or Advanced Transportation and Logistics Electric Bus training Level 1
Transferability: CSU
Grading: Graded Only
Students will learn the basic fundamental skills and techniques needed as part of the career field of Medium/Heavy-Duty Electrical Vehicles. Rules, codes, regulations, and laws associated with working on high voltage vehicles as well as safety and training in the areas of Personal Protective Equipment (PPE) will be addressed. High Voltage (HV) safety training in the areas of diagnostics and servicing of batteries including battery degradation testing of Electric Vehicles (BEV), Plug-In Hybrid Electric Vehicles (PHEV), and Hybrid Electric Vehicles (HEV) and Hydrogen powered Vehicles will be taught. The course will also include vehicle systems designs and the High Voltage (HV) electrical power fundamentals that control the operation and diagnostics of these systems.

11 FACULTY and EDUCATIONAL ADMINISTRATORS

Academic Assignments

Note: In addition to the following list of full-time faculty, the Palomar College instructional programs are also supported by a great number of qualified part-time faculty. The year indicated after each employee's name is the year first appointed to the Palomar College permanent academic staff.

Adams, Benjamin (2018) Health and Kinesiology/Athletics
M.A., Western Michigan University
B.S., Eastern Oregon University
A.S., Bend Community College

Adams, Carol L. (2004) Early Childhood Education Lab School
A.A., Palomar College
B.A., Ashford University
Child Development Site Supervisor Permit

Aguilar, Eduardo (2019) Ethnic Studies
B.A., University of California Riverside
M.A., University of California Los Angeles

Aguilar, Leslie (2024) EOP&S/CARE/CalWORKs
A.A., MiraCosta College
B.A., California State University San Marcos
M.A., San Diego State University

Aguilera, Anna V. (2005) Extended Opportunity Programs and Services
B.A., University of California, Irvine
M.S., California State University, Long Beach

Aguirre, Leticia (2016) Counseling
B.A., San Diego State University
M.S.W., San Diego State University

Ahmadi, Mejghan S. (2016) Counseling
B.S., San Diego State University, San Diego
M.A., University of Colorado

Albistegui-Dubois, Richard M. (2006) Biology
B.A., University of California, Santa Cruz
Ph.D., University of California, Los Angeles

Alexander, Efrem (2018) Counseling
B.A., Loyola Marymount University, Los Angeles
M.Ed., Point Loma Nazarene University, San Diego

Alidaee, Bahram (2001) Mathematics
B.S., Roosevelt University, Chicago
M.S., California State University, San Marcos

Allen, Melissa (2022) Athletics
M.Ed., Alliant International University
B.A., University of California, Berkeley
A.A., Palomar College

Anderson, Jennifer (2016) Trade and Industry
B.S., University of California, Davis
M.F.A., San Diego State University

Andrews, Michael (2019) Director, Public Safety Programs
B.A., Union Institute & University, Cincinnati, OH

Andrews, Shannon (2017) Chemistry
B.S., University of California, San Diego
M.S., University of California, San Diego
M.A., Dominican University, River Forest

Anfinson, Cynthia J. (1996) Mathematics
B.A., University of California, San Diego
M.S., Cornell University

Antonecchia, Rosa I. (2001) Counseling
B.S., California State University, Fullerton
M.A., San Diego State University

Asio, Frances-ann (2023) Disability Resource Center
B.A., National University
M.S., National University

Backman, Jennifer A. (2011) English, Humanities & Reading
B.A., University of California, San Diego
M.A., The University of Chicago
Ph.D., Purdue University

Backman, Russell (2019) English, Humanities & Reading
B.A., University of California, Berkeley
M.A., University of Chicago
Ph.D., University of California, Davis

Bagaglio, Melissa (2019) English, Humanities & Reading
B.S., University of Evansville
M.A., The University of Memphis
Ph.D., The University of Memphis

Baker, Sarah (2023) Counseling Services
B.S., San Francisco State University
M.S., San Diego State University

Balaszek, Daniel (2023) Military Leadership
A.A., Palomar College
B.G.S., Columbia College
M.A., Baker University

Barlolong, Christine E. (2016) Counseling
B.S., Cal State University, San Marcos
M.A., University of San Diego

Barnes, Juliette (2017) Police Academy Coordinator
B.A., California State University, San Marcos

Barton, Michelle A. (2002) Institutional Research and Planning
B.A., San Diego State University
M.S., San Diego State University

Bealo, Mark J. (2001) Graphic Communications
A.A., Palomar College
B.S., California State University, San Marcos

Belisle, Nicole (2023) Chief Diversity Officer
B.A., University of California, Santa Cruz
M.A., Columbia University
PhD., Claremont Graduate University

Behling, Erin (2023) Trades and Industry
B.F.A., Indiana University
M.F.A., San Diego State University

Bennett, Shauna (2017) Director, Disability Resources
B.A., Marquette University, Milwaukee
M.A., Duquesne University, Pittsburg
Ph.D., University of the Pacific, Stockton

Blankenship-Williams, Lesley E. (2008) Biology
B.A., University of California, Santa Cruz
M.S., University of California, San Diego
Ph.D., University of California, San Diego

Bongolan, Glyn E. (2006) Interim Associate Dean, Workforce Development and Extended Studies
B.A., University of California, San Diego
B.S., University of California, San Diego
M.A., San Diego State University
Ph.D., San Diego State University

Bowman, Peter J. (2004) Economics, History & Political Science
B.A., University of California, San Diego
M.A., Arkansas State University

Boyle, Patricia (2019) Emergency Medical Education
A.A., Palomar College
A.S., San Diego Miramar College

Brandon, Patricia A. (2004) Chemistry
B.S., California State University, Hayward
M.S., California State University, Fullerton

Briceno, Jose C. (2015) Behavioral Sciences
B.A., California State University San Marcos
M.A., California State University San Marcos
Ed.D., San Diego State University

Byrne, Madelyn R. (2000) Performing Arts
B.A., State University of New York, Stony Brook
M.M., Brooklyn College
D.M.A., City University of New York

Campo Griggs, Rita (2011) Design and Manufacturing Technologies
A.A., Cerritos College
B.A., San Diego State University

Canon, Terrie L. (2000) Computer Science and Information Systems
B.S., University of California, Santa Barbara
M.S., National University

Carrasco, William (2019) World Languages
B.A., Arizona State University
M.A., Arizona State University
Ph.D., University of Toulouse

Carrillo, Luz D. (2016) Chemistry
B.S., University of Wisconsin - Madison
M.A., The University of Texas at Austin
Ph.D., The University of Texas at Austin

Casas, Lisa (2017) Early Childhood Education Lab School
A.A., Palomar College
B.A., California State University, San Marcos
M.A., Pacific Oaks College, Pasadena

Cassoni, Mary J. (2005) Business Administration
B.A., Boston University
M.B.A., San Diego State University

Caterina, Amy (2015) Media Studies
B.F.A, State University of New York College, Buffalo
M.F.A., California State University, Fullerton

Cecere, Rosemarie L. (2001) Media Studies
B.A., University of California, San Diego
M.A., The New School

Chakkanakuzhi, Mathews T. (1995) Mathematics
B.S., California State University, Los Angeles
M.S., California State University, Los Angeles

Chamberlin, Craig S. (2001) Mathematics
A.A., Palomar College
B.S., Northern Arizona University
M.S., Northern Arizona University

Cheung, Wing H. (2007) Earth, Space, and Environmental Sciences
B.A., Unversity of California, Los Angeles
M.S., Indiana University
M.P.A., Indiana University
Ph.D., University of California, Irvine

Chowdhury, Parang (2022) Biology
B.A., University of Arkansas for Medical Sciences
Ph.D., University of Arkansas for Medical Sciences

Christensen Gwin, Catherine (2016) Economics, History & Political Science
B.A., University of California, Los Angeles
Ph.D., University of California, Irvine

Christensen, Kimberly T. (2014) Mathematics
M.A., University of California, Santa Barbara
B.S., University of California, Santa Barbara

Clark, Mark D. (1996) Mathematics
B.S., California State University, Long Beach
M.S., California State University, Long Beach

Clark, William (2109) Emergency Medical Education
A.A., Palomar College
A.A., Palomar College
A.A., Crafton Hills College

Clarke, Jordan (2022) Trade and Industry
B.S., California State University, Fullerton
M.B.A., Chapman University

Clegg, Daniel K. (1995) Mathematics
B.A., California State University, Fullerton
M.A., University of California, Los Angeles

Coalter, Chance (2023) Cabinet and Furniture Making
B.S., San Diego State University

Colbert, Amber (2019) Behavioral Sciences
B.A., California State University, Long Beach
M.A., San Jose State University

Colston, James (2024) Public Safety Programs, Fire Technology
A.S., Palomar College
B.S., Columbia Southern University

Cook-Whearty, Marquesa J. (2015) Speech Communication/ Forensics/ASL
B.A., University of California, San Diego
B.S., California Polytechnic State University, San Luis Obispo
M.A., San Diego State University

Cordova, Cynthia (2018) Counseling
A.A., Mira Costa College
B.A., California State University, San Marcos
M.S., California State University, Northridge

Cory, Abbie L. (2006) English, Humanities & Reading
B.A., California State University, Long Beach
M.A., University of California, San Diego
Ph.D., University of California, San Diego

Craft, Lacey J. (2010) Health and Kinesiology/Athletics
B.S., Azusa Pacific University
M.S., San Diego State University

Crook, Stephen (2019) Earth, Space, and Environmental Sciences
B.A., University of California, Los Angeles
M.Sc., University of Oxford

Cunningham, April D. (2013) Library
B.A., University of California, San Diego
M.A., University of California, Los Angeles
Ed.D., California State University, Fullerton

Dawber, Christina (2016) Extended Opportunity Programs & Services
B.A., University of California Berkeley
M.A., San Diego State University
Ph.D., University of California San Diego

Deal, Michael S. (2013) Biology
B.A. University of California, Santa Barbara
Ph.D., University of North Carolina

DeMaris, Patricia J. (1988) Counseling
B.A., Rutgers University/Douglas College
M.S., San Diego State University

Denson, Amber (2025) Nursing Education
B.S., The University of Texas at Tyler
M.S., The University of Texas at Tyler

Desrochers, Sarah M. (2013) Emergency Medical Education
B.A., The University of Louisiana
M.A., University of Phoenix

Diamond, Kathleen (2022) Nursing Education
B.S., California State University, Hayward
B.S., University of Las Vegas
M.S., Grand Canyon University

Dodderidge, Jacob (2024) Counseling Services
A.A., College of the Sequoias
B.A., California State University, San Marcos
M.S., National University

Doherty, Matthew (2017) Biology
B.S., Portland State University
M.S., San Diego State University

Dominguez, Ladylyn (2018) Counseling
B.S., California State University, San Marcos
M.S., National University, San Diego

Doyle Bauer, Alexandra E. (2016) Library
B.A., California State University, San Marcos
M.L.I.S., San Jose State University

Dudley, Michael (2017) Behavioral Sciences
B.A., Wabash College
M.S., University of Kentucky
Ph.D., University of Kentucky

Early, Daniel F. (2004) Health and Kinesiology/Athletics
A.A., Palomar College
B.A., California State University, Long Beach
M.Ed., Azusa Pacific University

Early, Joseph D. (1996) Health and Kinesiology/Athletics
B.S., San Diego State University
M.Ed., Azusa Pacific University

Eighmey, James D. (2007) Behavioral Sciences
B.G.S., University of Kansas
M.A., San Diego State University

Elliot Pham, Heather (2023) Child Development
B.A., San Diego State University
M.S.W., University of California, Los Angeles

Ellis, Mona J. (2006) Mathematics
B.S., New Mexico Institute of Mining and Technology
M.A., University of California, San Diego

Emerick, Ryan D. (2005) Behavioral Sciences
B.A., University of Richmond
M.A., University of California, Riverside
M.A., King's College London, University of London
Ph.D., University of California, Riverside

Epstein, Jeffrey H. (2015) Behavioral Sciences
B.A., University of California, Santa Cruz
M.A., American University
M.A., State University of New York College, Stony Brook
Ph.D., State University of New York College, Stony Brook

Escobedo, John (2024) Dean, Instructional, Mathematics, Sciences and Engineering
M.A., Rice University
Ph.D., Rice University

Estes, Matthew T. (2005) Economics, History & Political Science
B.A., San Diego State University
M.A., San Diego State University

Falcone, Kelly A. (2006) Professor/Instructional Designer
B.S., San Diego State University
M.A., San Diego State University
M.A., Azusa Pacific University
Ed.D., University of Phoenix

Farrell, Katy (2006) Reading Services
B.A., State University of New York at Genesco
M.L.S., Queens College City University of New York
M.A., University of California, San Diego

Faulkner, Margaret M. (2002) Performing Arts
B.F.A., University of Arizona
M.F.A., University of Iowa
Ph.D., Texas Woman's University

Feld, Erin C. (2011) Reading Services
B.A., Temple University
M.A., San Diego State University
M.A., San Diego State University

Fent, James A. (2013) Behavioral Sciences
B.S., Loma Linda University
M.S., University of La Verne

Fererro, Jennifer (2024), Dean of Instruction
B.A., University of Colorado
M.S., San Diego State University
Ed.D., San Diego State University

Ferro, Luz (2023) Trades and Industry
A.A., University of Phoenix

Figg, Sean A. (2013) Earth, Space, and Environmental Sciences
B.S., University of Minnesota
M.A., University of Northern Colorado

Finkenthal, Daniel F. (1997) Physics and Engineering
B.S., University of Lowell
Ph.D., University of California, Berkeley

Finton, Michael J. (1999) Emergency Medical Education
A.D.N., Santa Ana College

Flores, Karmi (2018) Counseling
B.S., San Diego State University
M.A., San Diego State University

Forney, Craig A. (2007) Behavioral Sciences
B.A., Fresno Pacific University
M.A., The University of Chicago
Ph.D., The University of Chicago

Forney, Marlene G. (2008) Library
B.A., Purdue University
A.M.L.S., University of Michigan, Ann Arbor

Fung, Tracy L. (2005) English as a Second Language
B.A., California Polytechnic State University, San Luis Obispo
M.A., San Diego State University

Garcia Villa, Hector (2016) Physics and Engineering
B.S., University of Barcelona
M.A., University of Barcelona

Gerwig, Arthur R. (2006) Physics and Engineering
B.S., San Diego State University

Gideon, Wendy S. (2014) Biology
B.S., California Lutheran University
Bachelor of Education, Simon Fraser University
M.S., University of California, Davis

Gilardi, James L. (1996) Biology
B.S., San Diego State University
M.S., San Diego State University
M.B.A., San Diego State University

Gilkey, Michael J. (2010) Business Administration
B.S., Brigham Young University
M.A.C., Brigham Young University

Glass, Lily (1999) Art
B.F.A., Art Center College of Design

Glassman, Joel W. (2011) Business Administration
B.S., University of Illinois
M.S., Kansas State University

Gomez, Alexander (2019) Ethnic Studies
B.A., San Diego State University
M.A., San Diego State University

Green, Nicholas R. (2002) Computer Science and Information Systems
A.A., Coconico Country Community College
B.A., California State University, San Marcos

Guerrero, Luis A. (2016) Mathematics
A.A., Southwestern College
B.A., University of California, San Diego
M.A., University of California, Santa Barbara

Guillen, Adriana (2019) World Languages
B.A., University of California, Santa Cruz
M.A., San Diego State University
Ph.D., University of California, Santa Barbara

Gushansky, Gene A. (2008) Biology
B.A., University of Northern Colorado
M.A., University of Northern Colorado

Gutierrez-Ortiz, Karina (2023) Early Childhood Education Lab School
A.S., Palomar College

Guzman, Mariana (2023) Health Services
B.A., California State University, San Marcos
M.A., National University

Hamilton, David (2023) American Sign Language
B.S., Gallaudet University
M.S., McDaniel College

Hardy, Yvonne (2023) Military Leadership
B.S., Park University

Harland, John (2011) Mathematics, Science and Engineering
Ph.D., University of California, San Diego
M.A., University of California, San Diego
B.A., University of California, San Diego

Hathaway, Shelbi R. (2015) Mathematics
B.A., University of California, Santa Barbara
M.Ed., University of California, Santa Barbara
M.S., San Diego State University

Hellon, Taneisha (2024) Counseling Services
B.S., Wiliam Jessup University
M.S., California State University, Sacramento
Ed.D., San Diego State

Hernandez, Michael (2013) Art
B.F.A., Emporia State University
M.F.A., Alfred University

Hernandez, Sergio H. (2008) Trade and Industry
O.A.D., Arizona Automotive Institute
B.S., University of Phoenix

Hernandez, Timothy M. (1997) Counseling
B.A., University of California, Santa Cruz
M.A., San Diego State University

Hernandez-Coria, Adelina (2003) Dental Assisting
B.A., The Autonomous University of Baja California

Herrera, Jennifer (2019) Economics, History and Political Science
B.A., California State University, San Marcos
M.A., California State University, San Marcos

Hiro, Erin M. (2007) Media Studies
B.S., California Polytechnic State University, San Luis Obispo
M.S., Northwestern University
M.Ed., Western Governors University

Hishmeh, Richard E. (2006) English, Humanities & Reading
B.A., University of California, Riverside
M.A., University of California, Riverside
Ph.D., University of California, Riverside

Hokett, Dewi D. (2000) Speech Communication/Forensics/ASL
B.A., California Baptist University
M.A., California State University, Fullerton

Hollins, Sherehe (2023) Ethnic Studies
M.A., National University
B.A., University of California, Berkeley

Holthaus, Tamara (2017) Early Childhood Education Lab School
B.S., Excelsior College, Albany
M.A., Pacific Oaks College, Pasadena

Hood, Elena (2023) American Indian Studies
B.A., University of California, Berkeley
M.Ed., Harvard University
Ed.D., University of California, San Diego

Hooper, Wayne (2013) Public Safety Programs
A.A., Palomar College
B.S., California State University, Long Beach

Hoover, Leah (2019) Business Administration
B.A., Point Loma Nazarene University
M.S., Keller Graduate School of Management

Hosaka, Heather W. (2016) English as a Second Language
B.A., San Diego State University
M.A., Queen Mary University

Hudelson, Mark J. (1997) Art
B.A., University of California, Irvine
M.A., San Diego State University

Ikenushi, Masako (2011) World Languages
B.A., University of Southern California
M.A., University of Southern California
Ph.D., University of California, Irvine

Issaian, Adena (2019) Chemistry
B.S., University of California, Los Angeles
M.S., University of California, Irvine

Jacobo, Rodolfo Jr. (2010) Ethnic Studies
B.A., San Diego State University
M.A., San Diego State University
Ph.D., San Diego State University/Claremont Graduate University

Jahnel, William B. (2001) Economics, History & Political Science
B.A., Austin College
M.A., Rice University

Jain, Catherine M. (2000) Earth, Space, and Environmental Sciences
B.S., California Polytechnic State University, San Luis Obispo
M.A., San Diego State University

Japtok, Martin M. (2004) English, Humanities & Reading
Ph.D., University of California, Davis

Jarvinen, Jason (2017) Cooperative Education
B.A., University of California, San Diego
M.A., University of San Diego

Johal, Amrik (2024) Dean, Student Life & Leadership
B.A., University of California, Los Angeles
M.A., Columbia University, Teachers College
M.A., Columbia University, Teachers College
Ph.D., University of California, Los Angeles

Jonestein, Sasha K. (2006) Art
B.F.A., University of Michigan
M.F.A., Massachusetts College of Art

Kardel, William S. (2015) Earth, Space, and Environmental Sciences
B.S. Ed., Northern Arizona University
M.S., The University of Arizona

Kay, Jordan (2024) Speech Communication/Forensics/ASL
B.A., University of California, Irvine
M.A., San Diego State University

Kearny, Kevin P. (2013) English, Humanities & Reading
B.A., Union College
M.A., University of California, Santa Barbara
M.A., University of California, Santa Barbara
Ph.D., University of California, Santa Barbara

Kerckhove, Lee F. (1997) Behavioral Sciences
B.A., University of California, San Diego
M.A., Loyola University
Ph.D., Loyola University

Kim, Hwang Y. (2016) Art
B.F.A., San Diego State University
M.A., Queen Mary University of London
M.F.A., Queen Mary University of London

Klinger Scott (2019) Media Studies
B.A., University of California, Los Angeles
M.F.A., University of California, Irvine

Krause, Sara K. (2015) Biology
B.S., Cornell University
Ph.D., University of California, Davis

Lane, Mark R. (1997) Earth, Space, and Environmental Sciences
B.A., San Diego State University
M.S., San Diego State University

Larson, Gregory S. (2006) Mathematics
B.A., University of California, San Diego
M.S., California State University, San Marcos

Lasater, Lisette (2019) English, Humanities & Reading
B.A., California State University, San Marcos
M.A., University of California, Riverside
Ph.D., University of California, Riverside

Lawrence, Christopher (2024) Public Safety Programs, Fire Technology
A.A., Palomar College
A.A., Palomar College
B.S., California State University, Long Beach

Lawson, Lawrence L. (2009) English as a Second Language
B.A., Sonoma State University
M.A., Monterey Institute of International Studies

Lee, Yuan-Lin (2019) Mathematics
B.A., University of California, Irvine
M.S., California State University, San Marcos

Lesperance, Henry (2024) Ethnic Studies
B.A., University of California, San Diego
M.A., University of California, San Diego

Lesyna, Kalyna K. (2001) Behavioral Sciences
B.A., San Diego State University
M.A., University of California, San Diego

Limer, Joseph P. (2013) Economics, History & Political Science
B.A., Fairmont State College
J.D., West Virginia University

Lindgren, Elise (2019) Biology
B.S., University of California, San Diego
M.S., University of California, San Diego

Lindsay, Cory (2017) Biology
B.S., Wayne State College
Ph.D., University of Florida, Gainesville

Little, Betsi (2019) Behavioral Sciences
B.A., Indiana University
M.S., University of North Dakota
Ph.D., University of North Dakota

Lochard, Cassondra (2022) Mathematics
B.S., California State University, Long Beach
M.A., University of California, Los Angeles
Ph.D., San Diego State University/University of California, San Diego (Joint Doctoral Program)

Lomeli-Hixon, Lorena T. (2011) Counseling
B.A., San Diego State University
M.S., San Diego State University

Lovelace, Sierra S. (2013) Counseling
A.A., Mira Costa College
B.B.A., National University
M.P.A., San Diego State University
M.A., San Diego State University

Lowry, Christopher R. (2001) Speech Communication/Forensics/ASL
A.A., Orange Coast College
B.S., Bradley University
M.A., Ball State University

Lucido, Joseph (2018) Design and Manufacturing Technologies
B.A., Woodbury University, Burbank
M.A., Woodbury University, Burbank

Luna, Karen (2024) ECE Lab School
A.A., Palomar College
A.S., Palomar College
A.A., Palomar College
B.A., California State University San Marcos

Lundell, Michael J. (2016) English, Humanities & Reading
Ph.D., University of California, San Diego

Lynds, Daniel (2020) Director of Athletics
A.A., Palomar College
B.A., California Polytechnic State University, San Luis Obispo
M.A., Concordia University, Irvine

Madan, Nimoli (1997) English as a Second Language
B.A., University of Bombay, India
M.A., University of Bombay, India
M.A., San Jose State University

Mancao, Ronald C. (2001) Health and Kinesiology/Athletics
A.A., Golden West College
A.B., San Diego State University
M.A., San Diego State University

Manneh, Beatrice H. (2015) World Languages
B.A., Ludwig-Maximilian University of Munich
B.A., Ludwig-Maximilian University of Munich (NACES)
M.A., Philipps-Universitat-Marburg (NACES)

Marjanovic, Kristen M (2014) Economics, History & Political Science
B.A., San Diego State University
M.A., San Diego State University
M.A., Arizona State University

Marshall, Leigh (2019) Health and Kinesiology/Athletics
A.A., Orange Coast College
B.S., California State University, Fullerton
M.A., California State University, Long Beach

Mart, Nicole (2022) Nursing Education
A.A., Palomar College
B.S., Chamberlain University
M.S., Chamberlain University

Martin, Timothy (2018) Library
A.S., The New England Institute of Art, Boston
B.A., Cambridge College, Cambridge
M.L.I.S., University of Hawaii

Martinez, Martha (1996) Mathematics
A.A., Palomar College
B.S., California State University, San Marcos
M.S., California State University, San Marcos

Martinez, Melissa (2022) English, Humanities & Reading
M.A., University of California, San Diego
B.A., University of California, San Diego

Mata, Nicholas (2023) Assistant Superintendent/Vice President of Student Services
B.A, English, University of Missouri
M.A., University of Missouri

Mattson, Rebecca (2018) Nursing Education
B.S.N., Franciscan University, Steubenville
M.S., California State University, Dominguez Hills
Ph.D., University of San Diego

Maunu, Leanne M. (2002) Dean, Languages and Literature
B.A., University of California, San Diego
M.A., Indiana University
Ph.D., Indiana University

McCann, Sylvie (2007) Early Childhood Education Lab School
A.A., Palomar College
B.S., University of Phoenix
Child Development Master Teacher Permit

McDaniel, Karen (2009) Nursing Education
B.S., University of Phoenix
M.S., California State University Dominguez Hills
Ph.D., Grand Canyon University

McIntosh, Daniela (2024) Counseling Services
Ethnic Studies, University of California, San Diego
B.A., San Diego State University

McMackin, Marissa (2023) Psychology
B.A., San Diego State University
M.S., San Francisco State University
PhD., University of California, Davis

McMurria, John (2019) Media Studies
B.S., University of Colorado Boulder
M.A., The City University of New York, Graduate Center
Ph.D., New York University

Mead, Patriceann J. (1997) Performing Arts
B.S., State University of New York, Brockport
M.A., State University of New York, Brockport
M.F.A, State University of New York, Brockport

Medel, Thomas (2018) Director, Education Center
B.S., California State University, Fresno
M.A., California State University, Northridge

Meehan, Adam J. (2015) English, Humanities & Reading
B.A., University of California, Berkeley
M.A., San Diego State University
Ph.D., University of Arizona

Mellos, Vickie (2017) English as a Second Language
B.A., University of California, San Diego
M.A., San Diego State University

Mendoza, Daniel (2024) Counseling Services
B.A.L.A.S., San Diego State University
M.A., San Diego State University

Mendoza, Mary E. (2016) Speech Communications/Forensics/American Sign Language
A.A., San Diego Community College
M.A., University of California, San Diego
Ed.D., University of California, San Diego

Meske, David (2018) Computer Science and Information Technology
B.S., California State University, Bakersfield
M.P.A, California State University, Bakersfield
Ph.D., University of La Verne

Messier, Vartan (2023) English
B.A., University of San Diego
M.A., University of Puerto Rico
Ph.D., University of California, Riverside

Meyers, Lori E. (2008) Disability Resource Center/Extended Opportunity Programs & Services
A.B., San Diego State University
M.S., San Diego State University

Mifflin, Karen L. (2001) Mathematics
B.S., University of California, Riverside
M.S., University of California, Riverside

Miller, David (2017) Public Safety Programs
A.S., San Diego Community College District
B.S., California State University, Long Beach

Miller, Susan A. (2002) Behavioral Sciences
A.A., Allan Hancock College
B.A., University of California, Berkeley
M.A., University of California, Davis
Ph.D., University of California, Davis

Mobilia, Anne-Marie (2001) Behavioral Sciences
B.A., University of California, Irvine
M.A., San Diego State University

Morales, Shelbi (2019) Early Childhood Education Lab School
B.A., California State University, San Marcos
A.A., Palomar College

Morris, Katie K. (2011) Counseling Services
B.A., San Diego State University
M.S., San Diego State University

Morrissette, Roger N. (2001) Behavioral Sciences
B.A., Plymouth State University
M.A., San Jose State University
Ph.D., University of California, Los Angeles

Morrow, Linda D. (2005) Library
B.S., Wayne State University
M.S., Wayne State University
M.A., Michigan State University

Moyano, Larry (2017) Counseling
A.A., Southwestern College
A.S., Southwestern College
B.A., California State University, San Marcos
M.A., San Diego State University

Mudgett, Benjamin (2015) Instruction
B.S., University of La Verne
M.A., University of Redlands
Ed.D., San Diego State University

Mufson, Michael A. (1995) Performing Arts
M.F.A., University of California, Irvine

Nahm, Hannah (2023) English
B.A., University of California, Los Angeles
M.A., University of California, Los Angeles
M.A., California State University, Northridge
Ph.D., University of California, Los Angeles

Nelson, Scott E. (2016) World Languages
B.A., California State University, Chico
M.A., California State University, Chico
M.A., The University of North Carolina at Chapel Hill
Ph.D., The University of North Carolina at Chapel Hill

Nelson, Wendy L. (2000) Media Studies
B.S., Ohio University
M.S., San Diego State University

Newman, Jessica (2019) Design & Manufacturing Technologies
A.A.S., Fashion Institute of Technology
B.F.A., Fashion Institute of Technology
M.F.A., Academy of Art University
M.A., Academy of Art University

Nguyen, Duy (2019) Computer Science/Information Technology
B.S., Harvey Mudd College
M.S., University of California, Los Angeles
Ph.D., University of California, Los Angeles

Nguyen, Quan H. (2019) Physics and Engineering
B.S., Embry-Riddle Aeronautical University
M.S., Santa Clara University

Nunez, Rosa Elvia (1990) Counseling
A.B., San Diego State University
M.S., San Diego State University

Ober, Ingram S. (2004) Art
B.A., Eckerd College
M.F.A., Claremont Graduate University

O'Brien, Matthew E. (2016) Behavioral Sciences
B.A., California State University San Marcos
M.A., California State University San Marcos
M.A., Claremont Graduate University
Ph.D., Claremont Graduate University

O'Brien, Patrick J. (2001) Counseling
B.S., University of Texas, Austin
M.A., San Diego State University

O'Callaghan, Dana M (2014) Counseling
B.A., University of California, Riverside
M.A., Pepperdine University
Ph.D., University of North Texas

O'Loughlin, John (2019) Speech Communication/Forensics/ASL
B.S., Gallaudet University
M.A., University of California, San Diego

Ortiz, Diana (2022) American Indian Studies
M.A., University of Arizona
M.A., University of Arizona
B.A., Florida Atlantic University

Padilla, Laura (2023) Chicana/o Studies
B.A., California State University, San Marcos
M.A., San Diego State University

Page, Andrew (2018) Emergency Medical Education
A.A., Palomar College, San Marcos

Pain, Elizabeth (2019) Behavioral Science
B.A., University of California, Los Angeles
M.A., California State University, Northridge

Paranthaman, Lakshmi (2018) Business Administration
B.B.A., College of William and Mary
M.B.A., University of California, Los Angeles
J.D., University of Virginia

Park, Sung (2023) Economics, History & Political Science
M.A., California State University, Fullerton
B.A., University of California, Riverside

Parker, Tina-Marie (2019) English as a Second Language
B.A., University of Vermont
M.Ed., University of San Diego

Payn, Lillian S. (1997) Graphic Communications
B.A., University of Arizona
M.A., University of Arizona
M.Ed., Utah State University
Ph.D., Capella University

Pearson, Elizabeth A. (1997) Biology
A.S., Victor Valley College
B.A., California State University, Fullerton
M.A., California State University, Fullerton

Pedroza, Anna (2024) Assistant Superintendent/Vice President of Human Resource Services
B.A., San Diego State University
M.A., United States International University

Pedroza, Jose Carlos C. (2005) World Languages
B.A., San Diego State University
M.A., San Diego State University

Perez, Antonio (2023) Automotive Technology

Perry, Stephen R. (2001) Computer Science and Information Systems
B.A., Illinois Institute of Technology
M.A., University of Phoenix

Peviani, Kristin (2022) Psychology
M.S., Virgina Tech
Ph.D., Virgina Tech

Phelps, Linda (2022) Nursing Education
B.S., Anderson University
M.S., Ball State University
D.N.P., University of Southern Indiana

Powers, Kevin M. (2016) Trade and Industry
B.A., California State University, San Bernardino

Raymundo, Mark Anthony (2019) Chemistry
B.S., University of California, Riverside
M.S., University of California, Riverside

Recalde, Tina (2023) Assistant Superintendent/Vice President of Instruction
Ph.D., University of Southern California
M.S., Middle Tennessee State University
B.S., University of California, San Diego

Richison, Scott (2019) Media Studies
B.A., University of California, San Diego

Ritt, Travis W. (2011) Economics, History & Political Science
B.A., University of Miami
M.S., University of Miami
M.A., Florida State University
Ph.D., Florida State University

Rivera, Heriberto (2015) Chemistry
B.S., University of California, San Diego
Ph.D., The University of Texas at Austin

Rivera-Lacey, Star (2021) Superintendent/ President
B.A., California State University, San Marcos
M.A., San Diego State University
Ph.D., San Diego State University

Robelin, Rene (2017) Early Childhood Education Lab School
B.A., California State University, San Marcos

Roe, Nichol (2024) Dean, Instructional, Career, Technical and Extended Education
A.A., MiraCosta College, Oceanside
B.A., California State University, San Marcos
M.A., California State University, San Marcos

Rolens, Clare E. (2015) English, Humanities & Reading
B.A., University of California, Santa Barbara
M.A., University of California, San Diego
Ph.D., University of California, San Diego

Romain, Lisa A. (1997) Counseling
B.A., California State University, Northridge
M.Ed., University of San Diego
M.S., California School of Professional Psychology, Los Angeles
Ph.D., California School of Professional Psychology, Los Angeles

Roppe, Brian (2022) Business Administration
M.B.A., Northern Arizona University
M.Adm., Northern Arizona University
B.S.B.A, Northern Arizona University

Rose, Candace (2014) Media Studies
B.A., Prescott College
M.H., Tiffin University

Rose, Fredric E. (2004) Behavioral Sciences
M.A., University of Montana
B.A., San Diego State University
Ph.D., University of Montana

Rose, Nicole (2023) Alcohol and Other Drug Studies
A.A., Palomar College
B.S., Springfield College
M.A., National University

Ross, Maryellen (2011) Nursing Education
B.S., York College of Pennsylvania
M.S., Walden University

Rudy, Denise E. (2003) Dental Assisting
A.A., MiraCosta College

Russell, John K. (2016) Performing Arts
B.M., Western Michigan University
M.A., Columbia University
D.M.A., University of Southern California

Rypien, Krystal L. (2013) Biology
B.S., University of Alberta
Ph.D., Cornell University

Sadat Ahadi, Hossna (2018) Counseling
A.A. San Diego Miramar College
B.A. University of California, San Diego
B.A. University of California, San Diego
M.A. San Diego State University
Ed.D. San Diego State University
Ph.D., University of San Diego

Salas, Leslie (2020) Dean, Student Sucess, Equity, and Counseling
A.S., Riverside Community College
B.A., Chapman University
M.A., University of Redlands
Ed.D., San Diego State university

Salib, Sarra (2024) Business Administration
B.S., California State University, San Marcos
M.S., San Diego State University

Salinas, Elizabeth (2024) EOP&S/CARE/CalWORKs
B.A, California State University San Marcos
M.A., San Diego State University

Salter, Steven (2018) Director, Extended Opportunity Programs & Services
B.S., Millersville University, Millersville
M.A., Lehigh University, Bethlehem, PA

San Juan, Seth A. (2013) American Indian Studies
B.A., University of California, San Diego
M.A, The University of Arizona

Sanchez, Gabriel A. (2006) Counseling
A.A., Southwestern College
B.A., San Diego State University
M.A., San Diego State University
Ph.D., San Diego State University

Sanchez, Tanessa (2022) Child Development
M.A., Pacific Oaks College
B.A., California State University, Fullerton

Sanders, Gina L. (2015) Mathematics
A.A., Palomar College
B.S., California State University San Marcos
M.S., California State University San Marcos

Schroer, Netta (2013) Behavioral Sciences
B.A., Scripps College
B.A., Scripps College
M.A., Claremont Graduate University
Ph.D. Claremont Graduate University

Seiler, Karl E. (2004) Health and Kinesiology/Athletics
A.A., MiraCosta College
B.S., San Diego State University
M.Ed., Azusa Pacific University

Sheaffer, Russell (2023) Media Studies
B.A., University of California, Irvine
M.A., New York University
Ph.D., Indiana University

Sheahan, Kathleen M. (2001) World Languages
B.A., California State University, San Marcos
M.A., San Diego State University
Ed.D., San Diego State University

Shiba, Jacob (2019) Trade & Industry
B.S., University of California, Riverside
M.S., University of California, Riverside

Shmorhun, Nina (2022) Earth, Space and Environmental Sciences
B.A., Bryn Mawr College
M.S., East Carolina University

Siminski, Nicole (2019) English as a Second Language
A.A., Sierra College
A.S., Sierra College
B.A., California Polytechnic State University, San Luis Obispo
M.A., San Diego State University

Singh, Jonathon (2022) Mathematics
B.S., California State University, San Marcos
M.S., California State University, San Marcos

Sleeper, Jonathan (2023) Earth, Space and Environment Sciences
B.S., San Jose State University
M.S., University of Hawaii
Ph.D., University of Hawaii

Smiley, Justin (2018) Dean, Instructional, Arts, Media and Business Administration
B.A., University of California, Los Angeles
M.F.A., Rutgers University at New Brunswick

Smith, Anthony W. (1996) Computer Science and Information Systems
B.S., University of Manchester Institute of Science and Technology, England
Ph.D., Kingston Polytechnic, England

Smith, Devon Y. (2013) Behavioral Sciences
B.A., Emory University
M.A., University of California, San Diego
Ph.D., University of California, San Diego

Smith, Holland (2022) Speech Communications/Forensics/ASL
M.A., University of California, Los Angeles
B.A., University of California, Los Angeles

Smith, Jonathan P. (2008) Economics, History & Political Science
B.A., Linfield College
M.A., University of California, San Diego

Smith, Julie (2019) Nursing Education
A.A., Palomar College, San Marcos
B.S., Grand Canyon University, Phoenix
M.S., Grand Canyon University, Phoenix

Somo, Sandy (2023) Sociology
B.A., San Diego State University
M.A., San Diego State University

Soria, Michelle (2023) Administration of Justice
B.S., National University
M.S., National University

Sosa, Gary S. (2004) English as a Second Language
B.A., California State University, Long Beach
M.A., Monterey Institute of International Studies

Sperling, Lindsay (2018) Chemistry
B.S., State University of New York, Geneseo
Ph.D., University of Illinois, Urbana-Champaign

Squires, Annette D. (2002) Mathematics
B.S., California State University, Long Beach
M.A., California State University, Long Beach

Stanley, Briana (2022) Art
M.F.A., California State University, Long Beach
B.A., Westmont College

Straub, Daniel (2021) Disability Resource Center
B.A., University of California San Diego
M.S., National University
M.A., San Diego State University

Studinka, Diane C. (1995) Dean, Social and Behavioral Sciences
B.A., Humboldt State University
M.S., National University
Ed.D., University of the Cumberlands

Talone, Anita R. (2011) Design and Manufacturing Technologies
B.A., University of California, San Diego
M.S., National University

Tavakkoly , Aundrea (2019) Physics & Engineering
B.A., University of Hawai'i Manoa (art)
B.S., University California Santa Barbara
M.S., University California Santa Barbara

Templo-Capule, Marie (2018) Library
B.A., De La Salle University, Manila
J.D., Western Michigan University, Michigan
M.A., New York School of Law, New York
M.A., Wayne State University, Detroit

Thompson, Rachel (2019) Early Childhood Education Lab School
B.A., California State University, San Marcos
A.A., Palomar College
A.A., Palomar College

Tian, Yan (2004) Mathematics
B.A., Beijing Teacher's University
M.A., Indiana University

Tiggs, Mercedes (2023) Health Services
B.S., San Diego State University
M.S.W, University of Southern California

Torgison, Cynthia M. (2000) Mathematics
B.A., McPherson College
M.A., California State University, Dominguez Hills
M.S., San Diego State University

Trujillo, Stacey (2016) English, Humanities & Reading
B.A., San Diego State University
M.A., University of California, San Diego
Ph.D., University of California, San Diego

Valentine, Barry (2019) HVAC Trade and Industry
B.S., University of Phoenix
California State Contractors License (HVAC)

Van Dyke, Leigh Ann (2013) Disability Resource Center
B.A., San Diego State University
M.S. California State University, Fresno

Van Houten, Juliane P. (2009) Nursing Education
B.S., University of Phoenix
M.S., San Diego State University

Velasco, Crystal (2021) Disability Resource Center
B.A., North Park University
M.A., San Diego State University

Velazquez, Kimberly M. (2007) Biology
B.S., San Diego State University
M.S., San Diego State University

Ventimiglia, Thomas V. (1999) Counseling
A.A., San Diego Mesa College
B.A., University of San Diego
M.A., San Diego State University

Versaci, Rocco L. (1997) English, Humanities & Reading
B.A., University of Illinois
M.A., Indiana University
Ph.D., Indiana University

Vido, Eileen (2024) Nursing Education, Maternal Health/Obstetrics
B.S., San Diego State University
M.S., Western Governors University

Villa Fernandez de Castro, Elena (2016) World Languages
B.A., Universidad Autonoma de Madrid
M.A., University of Hawai'i at Manoa
Ph.D., University of California, Santa Barbara

Wasef, Solange B. (2011) Design and Manufacturing Technologies
B.S., California State University, Long Beach
M.S., California State University, Los Angeles

Weintraub, Tamara S. (1997) Library
B.A., University of California, San Diego
M.L.S., University of California, Los Angeles

Weller, Ellen B. (2005) Performing Arts
B.A., Queens College City University of New York
M.A., Queens College City University of New York
Ph.D., University of California, San Diego

Whearty, Brandan F. (2005) Speech Communication/Forensics/ASL
B.S., Northern Arizona University
M.A., California State University, Long Beach

Williams, Grady (2022) Art
M.F.A., Academy of Art University
B.F.A., Art Center of College of Design

Williams, Ryan (2013) Director, Education Center
B.A., San Diego State University,

Willows, Marlo A. (2016) Behavioral Sciences
B.S., University of California, Davis
M.A., San Diego State University
Ph.D., University of Edinburgh

Wilson, Elaine (2019) Art
B.A., University of California, Santa Barbara
M.A., University of California, Riverside

Wilson, Gina (2018) Child Development
B.A., San Diego State University
M.A., Pacific Oaks College, Pasadena
M.S., Grand Canyon University

Wolters, Ashley (2018) Trade and Industry
A.A., Cerritos College
B.S., San Diego State University
M.A., California State University, San Bernardino

Wrathall, Laurence (2019) Business Administration
B.S., University of Virginia
M.S., University of San Diego
M.S., Pepperdine University
J.D., University of San Diego
LL.M., University of San Diego

Wright, David L. (2011) Trade and Industry
Eminence in the Field

Wright, Michael (2019) Design & Manufacturing Technologies
Certificate, Universal Technical Institute

Yakzan, Nahla (2023) Early Childhood Education Lab School
A.A., Palomar College
B.A., California State University, San Marcos

Yanez, Angelica M. (2015) Ethnic Studies
B.A., University of California, Santa Barbara
M.A., University of California, San Diego
Ph.D., University of California, San Diego

Young, Kathleen N. (2004) Behavioral Sciences
B.A., University of Hawaii, Manoa
M.A., University of California, Los Angeles
Ph.D., University of California, Los Angeles

Zabzdyr, Jennifer L. (2004) Chemistry
A.A., Pasadena City College
B.S., California Polytechnic State University, San Luis Obispo
Ph.D., University of California, Riverside

Ziade, Elia (2019) Mathematics
M.A., Saint Louis University
Ph.D., Saint Louis University

Zolliker, Susan B. (2000) English, Humanities & Reading
B.A., Michigan State University
M.A., San Diego State University

Zorrilla, Claribel (2022) Early Childhood Education Lab School
B.A., California State University, San Marcos

Zou, Benhui (2014) Library
B.A., Nankai University, Tianjin, Chin
M.S., University of Texas at Austin

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Academic Renewal: A policy which allows a student to petition to exclude prior substandard course work from their transcript which is not reflective of their current demonstrated ability. Obtain petition from the Records Office.

Academic Review Committee: A process by which students can petition to deviate from the College's policies and procedures. Obtain petition online under Enrollment Services petitions.

Accreditation: The review of the quality of higher education institutions and programs by an association comprised of institutional representatives. The Accrediting Commission for Community and Junior Colleges (ACCJC) of the Western Association of Schools and Colleges (WASC) accredits California's community colleges.

Articulation Agreements: A list of courses offered at Palomar College which are acceptable at transfer universities as equivalent in content (or as acceptable substitutes) to those courses offered by the universities. These lists are available in the Counseling Center and online at http://www.assist.org.

ASSIST: The official Internet site (www.assist.org) that contains all articulation agreements between California Community Colleges, the California State University, and the University of California.

Associated Student Government: A formal body of students elected to represent the voices and needs of students.

Associate in Arts (AA) Degree: Awarded upon completion of course work totaling not fewer than 60-degree applicable units in areas of: a) General Education and District Requirements, b) Major, c) Electives. Must apply by appropriate deadlines.

Associate in Arts Degree for Transfer (AA-T) Degree: Intended for students who plan to complete a Bachelor's Degree in a similar major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. See a counselor for specific information regarding this major.

Associate in Science (AS) Degree: Awarded upon completion of course work totaling not fewer than 60 degree-applicable units in areas of: a) General Education and District Requirements, b) Major, c) Electives. Must apply by appropriate deadlines.

Associate in Science Degree for Transfer (AS-T) Degree: Intended for students who plan to complete a Bachelor's Degree in a similar major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. See a counselor for specific information regarding this major.

Auditing: To take a course without being graded or receiving credit, available to students by petition only.

Career Technical Education (CTE) Transitions: Formerly known as Tech Prep, CTE Transitions is a technical and academic program that enables high school students to prepare for a career and college at the same time.

Catalog: A book published once a year that governs students' progress toward degrees and certificates and contains course descriptions, programs, requirements, policies and procedures.

CCCApply: A California Community Colleges website (www.cccapply.org,) that supports a common online admissions application accepted by most colleges in the system. It also provides information about campus programs and services and is the primary student portal to the system for those who do not enter through a specific college.

Certificate of Achievement (CA): Awarded upon completion of specified course work in a vocational/occupational program. Does not require general education units.

Certificate of Proficiency (CP): Designed to certify basic workplace competencies and job readiness. Awarded upon completion of specified course work.

Class Schedule: A booklet or electronic listing of class offerings, times, and locations published each term. The class schedule also contains enrollment information, add and drop deadlines, testing dates and times, and other general information. Class schedule may also be found on our website at http://www.palomar.edu/schedule/

College-Prep Classes (non-degree appropriate): These courses, principally in the basic skills areas, prepare students to perform satisfactorily in associate and baccalaureate appropriate classes. Students can take no more than 30 units of these courses; they do not apply to the degree.

Continuing Student: One who has attended classes during the previous regular term beyond the drop deadline.

Continuous Enrollment: For enrollment purposes, it is defined as attendance at Palomar College beyond the drop period of each primary term, where letter grades or W's appear on the transcript. For graduation purposes, it is defined as attendance in one semester or two quarters (excluding Summer Session) within a calendar year (January through December) in the CSU, UC, or California CC Systems following initial enrollment at Palomar.

Corequisite: A condition of enrollment consisting of a course that a student is required to take sumultaneously in order to enroll in another course.

Disciplines: Curricular subject matter areas designated by the Board of Governors (relying on the work of the Academic Senate), and used in establishing Minimum Qualifications for faculty.

Directed Study: Individual study for advanced students which may include class work, research, or projects that do not fit into the context of regularly scheduled classes. Department chairperson approval required for enrollment.

Distance Education/Distance Learning: Classes and other educational services offered via the Internet, television, or other technological means of teaching at a distance.

Education Code: The body of California law governing elementary, secondary and postsecondary education in California. Implementing regulations are contained in Title 5 of the California Administrative Code.

Educational Plan: A document generated by a student and a Palomar College Counselor that allows the student and institution together to identify the student's educational objectives, and to formulate a method for reaching them.

Extended Opportunity Programs and Services (EOPS): A state-funded program to support the enrollment of disadvantaged students through services including counseling and advisement, tutoring, peer support, books and financial aid.

Fast Track: A course which compresses semster-length coursework into eight weeks in duration.

Full Term Classes: A regular semester course of sixteen weeks.

Full-Time: A study load of 12 or more units per semester. The normal full-time load in Summer is 6 units.

General Education (GE) Requirements: Also known as breadth or core requirements, these patterns of courses are designed to expose students to broad areas of knowledge.

Grade Point Average (GPA): Determined by dividing total grade points earned by total academic (A-FW) units attempted.

Grade Points: Points given for academic (evaluative) grades.

- A = 4 points
- B = 3 points
- C = 2 points
- D = 1 point
- F = 0 points
- FW = 0 points

Half-Time: A study load of 6 – 8 1/2 units per semester.

Intersession Classes: Course offered between regular terms.

IGETC (Intersegmental General Education Transfer Curriculum): A general education program that California community college transfer students can use to fulfill all lower division G.E. requirements at most CSU or UC campuses (see a counselor for exceptions).

Late Start Classes: Accelerated courses which are less than sixteen weeks, but which must be completed with a semester/session.

Lower Division/Upper Division: In colleges and universities, lower division means freshman and sophomore years and upper division means junior and senior years. Community colleges provide lower division course work for transfer to four-year colleges and universities.

Major: A major is a group of courses related to a defined area of study. All colleges and universities require students to declare and pursue a major.

Minimum Qualifications: Statewide standards adopted by the Board of Governors (relying on the Academic Senate) that faculty must have in order to be hired. They are discipline based.

Noncredit Certificate of Competency (CC): A certificate in a recognized career field articulated with degree-applicable coursework, completion of an associate degree, or transfer to a baccalaureate institution. Students demonstrate achievement in a set of competencies that prepares students to progress in a career path or to undertake additional degree-applicable or non-degree-applicable credit courses.

Noncredit Certificate of Completion (CN): Designed to lead to improved employability or job opportunities. Awarded upon completion of specified course work.

Noncredit Courses: A variety of courses offered with no unit credit. The courses are taught by credentialed instructors and provide remedial, developmental, occupational, and other general educational opportunities to citizens of the community.

Pass/No Pass (P/NP) Grading: Pass/No Pass units are not counted in the GPA. A Pass is earned for coursework equal to a "C" grade or better. A No Pass is earned for coursework equal to a "D" or "F" grade. Pass/No Pass units are used in calculating Progress Probation and Dismissal.

Phi Theta Kappa: The honors society for community college students.

Probation: A warning status that scholastic standards are not being met.

Prerequisite: A condition of enrollment that a student is required to successsfully ('C' or better) meet in order to demonstrate current readiness in a course or educational program.

Puente Project: An academic, counseling and mentoring program of support for students to build the skills necessary for success in both academic and career goals while in community college. The program seeks to increase college enrollment and transfer rates for disadvantaged students.

Semester: A 16-week period of class work.

Service Learning: A policy and programs that advocate community service as an integrated component of a student's education.

Shared Governance: The practice of involving faculty, staff, administrators, and students in policy discussions at the local and state levels.

Short Term Classes: Any course which is less than sixteen weeks.

Student Learning Outcomes (SLOs): Overall skills, knowledge, or abilities that students are expected to demonstrate after completing a course or program of study.

Summer Session: Mini sessions offered during the summer, generally either six weeks or eight weeks.

TAG (Transfer Admission Guarantee): Palomar College has TAG programs with six UC campuses. All of these agreements guarantee admission into the major at those universities.

Taxonomy of Programs (TOP) Codes: Used by the Chancellor's Office to code teaching disciplines and other program areas.

Title 5: The portion of the California Code of Regulations containing regulations adopted by the Board of Governors which are applicable to community college districts.

Three-Quarter Time: A study load of 9 – 11 1/2 units per semester.

Transcript (of Record): An official copy of the record of classes attempted and/or completed by a student. The transcript is maintained by the Palomar College Records Office and is considered confidential. It may be viewed or released only with permission of the student.

Tuition (Enrollment Fees): A charge for instruction.

Tutor: A person, recommended by faculty as knowledgeable in specified subjects, who is available through Tutoring Services free of charge to work with an enrolled individual in need of special assistance with course work.

UMOJA: (a Kiswahili word meaning unity) A community-based program dedicated to enhancing the cultural and educational experiences of African American and other students.

Unit of Credit: A credit or semester unit represents one hour of class work per week for one semester. It is expected that most students will spend two hours outside class in preparation for each hour of lecture. Slightly less outside preparation time is expected in laboratory. Three hours of laboratory per week are approximately the equivalent of one unit.

Units Attempted: Credit units in which the student was enrolled beyond the 20% point of any course whether or not a passing grade was earned or the student withdrew from the course before its completion.

Work Experience: A program that combines classroom studies with on-the-job experiences.

Work Study: A type of financial aid program that provides money for students in return for working at the college or in off-campus placements made by the college.

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PALOMAR COLLEGE®
Learning for Success