A.S. DEGREE MAJOR

Program Red	Units	
ART 104	Design and Composition	3
ART 120	Foundations of Life Drawing	3
ART 166	History of Art II	3
ART 200	Color Theory	3
ARTD 150	Digital Concepts and Techniques in Art	3
ARTD 220	Motion Design	3
ARTI 100	Concept Sketching	3
ARTI 210	Illustration I	3
ARTI 220	Illustration II, Digital Techniques	3
ARTI 246	Digital 3D Design and Modeling	3
	Final Art Portfolio Review	0
Electives (Se	lect 6 units)	
ART 121	Intermediate Life Drawing	3
ART 125	Introduction to Portraiture	3
ART 220	Introduction to Painting	3
ART 235	Watercolor Painting I	3
ARTD 100	Graphic Design I	3
ARTI 247	Digital 3D Design and Animation	3
ARTI 248	Digital 3D Design and Sculpture	3
BMGT 105	Small Business Management	3
TOTAL UNI	36	

TOTAL UNITS

Illustration A.S. Degree Major is also listed in ART.

COURSE OFFERINGS

Individual courses are not repeatable. State Regulations (Title 5, Sections 55040-55041) also limit the number of times a student may take courses with related content and similar primary educational activities. Therefore, some combinations of course work in Art - Illustration have limitations on the number of times a student may enroll. Specific information about enrollment limitations for Art -Illustration classes is available at

http://www.palomar.edu/schedule/restrictions.htm

ARTI 100 **Concept Sketching**

11/2 hours lecture - 41/2 hours laboratory

Transfer acceptability: CSU

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

 $1\frac{1}{2}$ hours lecture - $4\frac{1}{2}$ hours laboratory Transfer acceptability: CSU

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 Accurate analysis, historical reference, oral and graphic presentation of ideas, sketches and finished art will be stressed.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

 $1\frac{1}{2}$ hours lecture - $4\frac{1}{2}$ hours laboratory

Prerequisite: A minimum grade of 'C' in ARTI 210

Transfer acceptability: CSU

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 1 1/2 hours lect	Digital 3D Design and Modeling ture - 4 ¹ / ₂ hours laboratory	(3)
Recommend	led preparation: ARTD 150	
Transfer acc	eptability: CSU	
	s of computerized 3-D modeling and Design. Hands or g, lighting, developing texture maps and rendering.	n experience
ARTI 247	Digital 3D Design and Animation ture - 4½ hours laboratory	(3)
	led preparation: ARTD 220	
	ceptability: CSU	
Concepts an	d techniques of 3-dimensional animation using Maya s rovide an understanding of the production, animation	
	Digital 3D Design and Sculpture ture - 4½ hours laboratory	(3)

Transfer acceptability: CSU

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.

Astronomy (ASTR)

Contact the Earth, Space, and Aviation Sciences Department for further information. (760) 744-1150, ext. 2512 Office: NS-110G For transfer information, consult a Palomar College Counselor.

Associate in Science Degrees -

AS Degree requirements are listed in Section 6 (green pages). Astronomy

Certificates of Achievement -

Certificate of Achievement requirements are listed in Section 6 (green pages). Astronomy

Planetarium

(3)

(3)

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The Planetarium is part of the Earth, Space, and Aviation Sciences Department at Palomar College. Several types of planetarium programs are offered for the community including school programs for area elementary and secondary schools. The planetarium also offers evening shows throughout each month, open to students of Palomar College and the general public. For further information, visit www.palomar.edu/planetarium or contact the planetarium at planetarium@ palomar.edu or (760) 744-1150, ext. 2833.

PROGRAM OF STUDY

Astronomy

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 College counselor. Students pursuing a major in Astronomy at San Diego State University must complete a minor in Mathematics.

A.S. DEGREE MAJOR OR **CERTIFICATE OF ACHIEVEMENT**

Program Requirements		Units
ASTR 100	Principles of Astronomy	3
ASTR 105L	Introduction to Astronomy Laboratory	I
ASTR/GEOL 120	Planets, Moons and Comets	3
MATH 140	Calculus/Analytic Geometry, First Course	5
MATH 141	Calculus/Analytic Geometry, Second Course	4
MATH 205	Calculus/Analytic Geometry, Third Course	4
PHYS 230	Principles of Physics	5
PHYS 231	Principles of Physics	5
PHYS 232	Principles of Physics	4
TOTAL UNITS		34

TOTAL UNITS

Recommended Electives: ASTR 210, 295

COURSE OFFERINGS

(3)

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(1-3)

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ASTR 100 **Principles of Astronomy** 3 hours lecture

Transfer acceptability: CSU; UC

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 3 hours laboratory

Prerequisite: A minimum grade of 'C' in ASTR 100 or 120, or concurrent enrollment in ASTR 100 or 120

Transfer acceptability: CSU; UC

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 hours lecture

Note: Cross listed as GEOL 120

Transfer acceptability: CSU; UC

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

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus

Selected topics in astronomy and space sciences, emphasizing current research and discoveries. Refer to the Class Schedule for specific topics covered.

ASTR 210 Life in the Universe

3 hours lecture

Prerequisite: A minimum grade of 'C' in ASTR 100 or 120

Transfer acceptability: CSU

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, 2, 3)

Arrange 3, 6, or 9 hours laboratory with department chairperson

Prerequisite: A minimum grade of 'C' in ASTR 100 or 120

Transfer acceptability: CSU; UC - Credit determined by UC upon review of course svllabus.

Individual study in field, library, or laboratory for interested students.

Athletics and Competitive Sports (ACS)

Contact the Athletics Department for further information. (760) 744-1150, Ext. 2460 Office: O-10

The intercollegiate athletics program at Palomar College is one of the most comprehensive and diverse among the California Community Colleges, featuring 22 varsity sport programs and over 450 student participants annually. Palomar fields intercollegiate teams in the following men's sports: baseball, basketball, cross country, football, golf, soccer, swimming and diving, tennis, volleyball, water polo, and wrestling. The list of women's sports includes: basketball, cross country, golf, beach volleyball, soccer, softball, swimming and diving, tennis, track and field, volleyball, and water polo. Additionally, the Athletic Department oversees

a co-educational cheerleading program. Students must meet the eligibility standards of the California Community College Athletic Association in order to represent the institution athletically.

Prospects for Palomar College intercollegiate athletic teams may not participate in an official practice or competition, nor be issued equipment or apparel from athletic equipment management without departmental verification of the following items:

- I. Current and active full-time enrollment in good standing at Palomar College. (Full-time enrollment defined as enrollment in a minimum of 12 semester units, nine (9) of which must be in academic course work leading to a certificated degree and/or transfer to the four-year level.
- 2. Qualification of CCCAA athletic and academic eligibility standards.
- 3. Satisfactory physical examination by a physician (medical doctor) approved by Palomar College.
- 4. Health insurance evaluation by the Palomar College Athletic Training Staff.
- 5. Participate in the Palomar College Athletic Academic Advisement Program which includes:
 - a. Establishment of an Individual Education Plan by October 15th for Fall-sport athletes and by March 15th for Spring-sport athletes. b. Assessment of academic course progress conducted each
 - semester

INTERCOLLEGIATE ATHLETIC **COURSE OFFERINGS**

Students enrolled in an Athletic and Competitive Sport are limited to 175 contact hours per year in Kinesiology courses that focus on conditioning or skilldevelopment for that respective sport. Specific information about enrollment limitations for Kinesiology classes is available at http://www.palomar.edu/schedule/restrictions.htm

Courses numbered under 100 are not intended for transfer credit.

ACS 50 Introduction to Collegiate Athletics I hour lecture

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

3 or 6 hours laboratory

Prerequisite: Enrollment subject to audition

Note: This class will require travel away from the college on weekends and other dates

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

9 hours laboratory

Transfer acceptability: CSU; UC - max credit combined with KINE activity courses, 4 units

Provides women with the opportunity to develop advanced skills and strategies in intercollegiate softball which will be applied to competitive situations.

ACS 110

(3)

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(1)

(1,2)

Intercollegiate Basketball 9 hours laboratory

Transfer acceptability: CSU; UC - max credit combined with KINE activity courses, 4 units

Provides men and women with the opportunity to develop advanced skills and strategies in intercollegiate basketball which will be applied to competitive situations.