PROGRAM OF STUDY

Library Technology

Provides training for students desiring employment as library technical assistants and retraining for those reentering the labor market.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements		Units
LT 100	Introduction to Libraries/Info Services	3
LT 110	Library Skills/Technical Services	3
LT 115	Library Operational Skills/Public Services	3
LT 120	Info Sources/Services/Reference	3
LT 130	Library Media and Technology	3
LT 140	Library Services Child/Young Adults	3
CSIT 105 or CSIT 120/ R CSIS 120	Computer Concepts and Applications Computer Applications	3
Electives Group I (Select 3 – 4 units)		
BUS 125	Business English	3
BUS 205	Business Writing	3
ENG 100	English Composition	4
Electives Group II (Select 3 units)		
CE 100	Cooperative Education	1,2,3
CE 150	Cooperative Education Internship	2,3
LT 197	Topics in Library Technology	.5-3
TOTAL UNITS		**27 – 28**

COURSE OFFERINGS

LT 100 Introduction to Libraries and Information Services (3)

3 hours lecture

Transfer acceptability: CSU

This course is an introduction to the philosophy of library service; history and types of libraries; organization and operation of libraries and history of information. The role of the library/media technician; duties of the library/media technician in public services, reference, and technical services will also be introduced. Topics covered include the basic skills necessary for successful library employment including job search, application procedures, and the relationship of the LMTA to the Librarian, the library staff, and the community served.

LT 110 Library Operational Skills/Technical Services (3)

3 hours lecture

Transfer acceptability: CSU

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)

3 hours lecture

Transfer acceptability: CSU

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 material shelving, interlibrary loan services, circulation of materials, fines, patron records, supervision, handling cash, maintaining statistics, and building security and emergency procedures.

LT 120 Information Sources and Services/Reference (3)

3 hours lecture

Transfer acceptability: CSU

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, World Wide Web searching and evaluation, and bibliographic instruction.

LT 130 Library Media and Technology (3)

3 hours lecture

Transfer acceptability: CSU

Prepares the student to use instructional media in the classroom and library/media center, with emphasis on the role and utilization of computers and other technology in education. Topics covered include the utilization of videotapes, graphics, and other projected and non-projected media, operation of appropriate equipment, and the production of transparencies, graphics and displays.

LT 140 Library Services for Children and Young Adults (3)

3 hours lecture

Transfer acceptability: CSU

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.

LT 154 Information for Life Long Learning (3)

3 hours lecture

Transfer acceptability: CSU

This class will prepare students to locate, evaluate, and use information resources through the study of learning styles, goal setting, study skills, health and wellness, and human behavior. Students will work independently and in groups leading to an integrated understanding of themselves and the value of information.

LT 197 Topics in Library Technology (.5-3)

Units awarded in topics courses are dependent upon the number of lecture hours required of the student. Refer to Class Schedule.

Note: May be taken 4 times

Transfer acceptability: CSU

Selected topics in Library Technology. Refer to the Class Schedule for topics covered.

Mathematics (MATH)

Contact the Mathematics Department for further information.
(760) 744-1150, ext. 2535
Office: E-11

Associate in Arts Degrees -

AA Degree requirements are listed in Section 6 (green pages).
• Mathematics

Any student wishing to earn an A.A. Degree must meet competence requirements at the MATH 60 level. Methods by which a student can demonstrate competence are listed under "Competence Requirements" in front of this catalog. Students wishing to enroll in MATH 50, 50A, 56, 60, 110, 115, 120, 125, and 135 must participate in the mathematics placement process or meet the prerequisite listed in the catalog. The mathematics placement test may be taken two times within a two year period, through the Palomar College Counseling Center. The assessment and placement process determines eligibility for enrollment in these courses. Students interested in determining their readiness to enroll in MATH 140 may additionally request to take the College Algebra Asset Test. Arrangements for this test can be made in the Counseling Center.

PROGRAM OF STUDY

Mathematics

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.

A.A. DEGREE MAJOR

Program Requirements		Units
MATH 140	Calculus with Analytic Geometry, First Course	5
MATH 141	Calculus with Analytic Geometry, Second Course	4
MATH 205	Calculus with Analytic Geometry, Third Course	4
MATH 120 or	Elementary Statistics	
MATH 200 or	Introduction to Linear Algebra	
MATH 206	Calculus with Differential Equations	3,4

Students must receive a grade of 'C' or better in each course that applies to an A.A. Degree Major or Certificate

MATH/		
CSCI 146 or	FORTRAN 90 for Mathematics and Science	3
CSCI 110 or	Programming for Computer Sciences	4
CSCI 220	C Programming	4
TOTAL UNITS		**19 - 21**

Recommended Electives: PHYS 230, 231, 232; CHEM 110, 115; MATH 245

COURSE OFFERINGS

Courses numbered under 50 are non-degree courses.
Courses numbered under 100 are not intended for transfer credit.

MATH 10 Basic Arithmetic (3)
3 hours lecture
Non-degree Applicable
Basic arithmetic computational skills, with an emphasis on the whole numbers, fractions, decimals, and an introduction to the concepts of area and perimeter. Designed for students who are lacking fundamental arithmetic skills.

MATH 12 Supplemental Instruction for Basic Arithmetic (1)
1 hour lecture
Note: Pass/No Pass grading only; may be taken 2 times
Non-degree Applicable
Supplemental instruction for students enrolled in MATH 10 – Basic Arithmetic. Designed for students who need additional review of basic arithmetic topics.

MATH 15 Prealgebra (3)
3 hours lecture
Note: May be taught in Spanish
Non-degree Applicable
The basic arithmetic operations, integers, fractions, decimals, percents, ratio and proportion, basic geometric con¬cepts, problem-solving techniques, and an introduction to algebraic thinking.

MATH 17 Supplemental Instruction for Prealgebra (1)
1 hour lecture
Note: Pass/No Pass grading only; may be taken 2 times
Non-degree Applicable
Supplemental instruction for students enrolled in MATH 15 - Prealgebra. Designed for students who need additional review of prealgebra topics.

MATH 42 Supplemental Instruction for Beginning Algebra (1)
1 hour lecture
Note: Pass/No Pass grading only; may be taken 2 times
Non-degree Applicable
Supplemental instruction for students enrolled in MATH 50 - Beginning Algebra. Designed for students who need additional review of beginning algebra topics.

MATH 42A Supplemental Instruction for Beginning Algebra Part I (1)
1 hour lecture
Note: Pass/No Pass grading only; May be taken 2 times
Non-degree Applicable
Supplemental instruction for students enrolled in MATH 50A - Beginning Algebra. Designed for students who need additional review of beginning algebra topics.

MATH 42B Supplemental Instruction for Beginning Algebra Part II (1)
1 hour lecture
Note: Pass/No Pass grading only; May be taken 2 times
Non-degree Applicable
Supplemental instruction for students enrolled in MATH 50B - Beginning Algebra. Designed for students who need additional review of beginning algebra topics.

MATH 47 Mathematics Topics (.5-4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.
Note: May be taken 4 times
Non-degree Applicable
Topics in Mathematics. See class schedule for specific topic covered. Course title will designate subject covered.

MATH 50 Beginning Algebra (4)
4 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 15 or eligibility determined through the math placement process
Note: May be taught in Spanish
Elementary algebra which emphasizes mathematical reasoning, problem solving, and real-world applications using numerical, algebraic, and graphic models. Topics include problem-solving techniques, algebraic expressions, polynomials, linear equations, linear inequalities, linear and nonlinear graphs, systems of linear equations in two variables, integer exponents, proportions, and radicals.

MATH 50A Beginning Algebra Part I (2)
2 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 15 or eligibility determined through the math placement process
Note: Not open to students with credit in MATH 50
First part of Math 50 with emphasis on mathematical reasoning, problem solving, and real-world applications using numerical, algebraic, and graphical models. Topics include problem-solving techniques, algebraic expressions, polynomials, linear equations, linear inequalities, linear and nonlinear graphs, and natural number exponents.

MATH 50B Beginning Algebra Part II (2)
2 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 50A
Note: Not open to students with credit in MATH 50
Second part of Math 50 with continued emphasis on mathematical reasoning, problem solving, and real-world applications, using numerical, algebraic, and graphical models. Topics include problem-solving techniques, algebraic expressions, polynomials, linear equations, linear inequalities, linear and nonlinear graphs, systems of linear equations in two variables, integer exponents, proportions, and radicals.

MATH 55 Geometry (4)
4 hours lecture
Prerequisite: A minimum grade of 'C' in either MATH 50 or MATH 50B or eligibility determined through the math placement process
Fundamentals of plane geometry and selected topics from solid geometry developed by both inductive and deductive processes. Especially recommended for prospective teachers and/or students who will be taking Trigonometry.

MATH 56 Beginning/Intermediate Algebra (6)
6 hours lecture-2 hours laboratory
Prerequisite: Eligibility determined through the math placement process
Note: Not open to students with credit in MATH 60
A review of elementary algebra and in-depth coverage of intermediate algebra intended for the student who has previous experience with algebra. Meets requirement for the A.A. degree. Meets prerequisite requirement for mathematics courses number 100-120, and 135.

MATH 60 Intermediate Algebra (4)
4 hours lecture
Prerequisite: A minimum grade of 'C' in either MATH 50 or MATH 50B or eligibility determined through the math placement process
Graphic, numeric, analytic and applied perspectives on topics including linear, quadratic, exponential and logarithmic functions, exponents and radicals, linear and nonlinear systems of equations and inequalities.

MATH 97 Mathematics Topics (.5-4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.
Prerequisite: A minimum grade of 'C' in either MATH 50 or MATH 50B, or eligibility determined through the Math Placement process