

Monterey Peninsula College

SUPPLEMENTAL CATALOG

FALL 2012

(This supplemental catalog reflects new and revised programs and courses adopted since the 2012-2013 catalog and the Summer 2012 supplemental catalog were published.)

INSTRUCTIONAL PROGRAMS

A primary objective of Monterey Peninsula College is to extend its services and resources to the community to help meet the community's educational, cultural and recreational interests.

Instructional services include day, evening and weekend instructional programs offered on the Monterey campus, at the MPC Education Center at Marina, the Public Safety Training Center in Seaside, and off-campus locations, as well as a varied selection of distance learning courses and courses geared to meeting the needs of older adults.

In meeting this primary objective, Monterey Peninsula College offers the following types of programs:

Career technical: The career technical education programs offer the student basic technical and professional curricula to gain the skills and knowledge needed for employment, job advancement, certification, and/or the associate degree.

Transfer: The transfer program enables the student to complete the lower-division requirements in preparation for transfer to a baccalaureate-granting institution. MPC courses parallel those offered to freshman and sophomore students at the University of California, California State University, and private colleges and universities.

Skills Development: A program of basic skills is offered to students needing to increase performance levels in English, reading, study skills, math, critical thinking and other fundamental skills required for successful completion of college-level course work. An English as a Second Language program is available for students whose native language is one other than English. Support centers are available for language and mathematics skill development at a wide range of levels.

In order to increase access, Monterey Peninsula College offers many courses in the community as well as on the Monterey campus. Numerous courses are offered through the Older Adult program at senior citizen centers and at other easily accessible sites. MPC also offers some courses at local high schools.

Further, Monterey Peninsula College provides distance education through its growing number of online courses. Some online courses also require on-campus orientations.

Finally, Monterey Peninsula College offers a wide range of courses through Instructional Agreements, providing educational opportunity in partnership with numerous agencies and firms in the community.

EARLY CHILDHOOD EDUCATION

The Child Development Department offers course work that leads to an Associate in Science degree in Early Childhood Education, an Early Childhood Education Certificate of Achievement (Career Technical), and an Associate in Science degree in Early Childhood Education for Transfer that will transfer to a California State University Bachelor of Arts degree, and course work required by the State of California Department of Education Child Development Permit Matrix.

Learning Outcomes: Upon successful completion of the Early Childhood Education program, students will be able to:

- Understand and apply knowledge of child development theories and principles, encompassing children’s physical, intellectual, social, and emotional development in a relational, play-based approach that recognizes various contexts that influence children as individuals and plan for all children’s developmental needs from both an individualized and group perspective.
- Identify, develop, and implement developmentally appropriate curriculum, teaching practices, and healthy/safe/inclusive environments that positively guide and enhance children’s development, creativity, and problem-solving skills in relation to the major curriculum areas of math, science, creative art, language/literature/literacy, social studies, large and small motor development, music/movement, literatures, and health/safety/nutrition. Teachers develop positive, supportive relationships with children in order to plan for groups and individual children using a relational, play-based collaborative approach involving families, the community, and knowledge of foundations of learning for young children, including knowledge of dual-language learner and inclusion strategies for children with special needs.
- Value and cultivate collaborative family and community relationships through inclusion of families and communities in young children’s development and learning, and apply knowledge and strategies for honoring and working with diverse groups of children, families and community.
- Identify and implement observation, documentation, and other developmentally appropriate assessment strategies (including the use of technology), in collaboration with families and community resources, to plan for children’s interests, meet developmental needs, and strengthen teacher’s work with children and families.
- Develop reflective habits and grow as an Early Childhood professional by understanding the complexities, ethical responsibilities, and professional role as a teacher and advocate for young children, their families, and the early-childhood profession.
- Critically examine and comprehend human nature, social behavior, and/or institutions.

State Licensing:

Aide requires any 6 units of Child Development.

Teacher requires 12 Child Development units including core CHDV 1, 55 and any combination of CHDV 2, 51-86.

Director requires 15 Child Development units including core CHDV 1, 55, 71A and any combination of CHDV 2, 51-86.

Note: Licensing requires CHDV 62 Infant-Toddler Care for teachers and directors who supervise infants or toddlers.

Child Development Permit (educational requirements):

Assistant requires any 6 units of Child Development.

Associate Teacher requires 12 Child Development units including core CHDV 1, 55 and any combination of CHDV 2, 51-86, plus work experience guidelines set by CDE.

Teacher requires 24 Child Development units including core CHDV 1, 55 and any combination of CHDV 2, 51-86 and 16 General Education units with at least one degree-applicable course in English/Language Arts, Math/Science, Social Sciences, and Humanities/Fine Arts.

Master Teacher requires all that is required for the Teacher level plus CHDV 72, 16 General Education units with at least one degree-applicable course in English/Language Arts, Math/Science, Social Sciences, and Humanities/Fine Arts, and six units from one of the following specializations:

- Violence Intervention: CHDV 76A and 76B
- Creative Processes: CHDV 80-86
- Working with Families: CHDV 74 and 75
- plus work experience guidelines set by CDE

Site Supervisor requires an AS with 24 Child Development units including core CHDV 1, 55, 71A, 71B, 72, plus work experience guidelines set by CDE.

Program Director requires a BA with all of the requirements of Site Supervisor level, plus work experience guidelines set by CDE.

Certificate of Achievement (Career Technical)

Certificate Requirements	UNITS
CHDV 1 Child Growth and Development	3
CHDV 2 Observation and Assessment	3
CHDV 51 Principles and Practices of Teaching Young Children	3
CHDV 52 Practicum: Field Teaching Experience	5
CHDV 55 Child, Family, and Community	3
CHDV 56 Teaching in a Diverse Soc.	3
CHDV 61 Health, Safety & Nutrition for the Young Child	3
CHDV 80 Introduction to Curriculum	3
<i>Select two courses from the following:</i>	4-6
CHDV 81 Approaches to Art Curriculum (2)	
CHDV 82 Science and Math Curriculum (3)	
CHDV 83 Music and Movement Curriculum (2)	
CHDV 84 Language and Literacy Curriculum (3)	
CHDV 85 Curriculum for Small & Large Motor Dev. (2)	
CHDV 86 Construction Curriculum (2)	

TOTAL CERTIFICATE UNITS 30-32

Associate in Science (Career Technical Degree)

Complete Major, *MPC General Education Pattern*, Competency Requirements, and 60 degree-applicable units.

Associate Degree Major Requirements	UNITS
Certificate Requirements	30-32
<i>No additional major courses required.</i>	

TOTAL MAJOR UNITS 30-32

Associate in Science for Transfer

Complete Major, *CSU General Education or IGETC Pattern*, and 60 degree-applicable units (see pages 53, 57-58).

Associate Degree Major Requirements		UNITS
CHDV 1	Child Growth and Development	3
CHDV 2	Observation and Assessment	3
CHDV 51	Principles and Practices of Teaching Young Children	3
CHDV 52	Practicum: Field Teaching Experience	5
CHDV 55	Child, Family, and Community	3
CHDV 56	Teaching in a Diverse Soc.	3
CHDV 61	Health, Safety & Nutrition for the Young Child	3
CHDV 80	Introduction to Curriculum	3

TOTAL MAJOR UNITS **26**

ENGLISH: CREATIVE WRITING

The Creative Writing program provides students the opportunity to pursue their interest in writing through intensive study and practice of the literary arts. Working with faculty who are themselves published writers, students create original, polished works of poetry and prose. The program engages students in writing, reading, and discussing creative works in a supportive writing workshop environment. This program is of benefit to students planning to major in Creative Writing at a four-year institution, and to anyone with an interest in exploring their own creativity and developing stronger writing, reading, and critical thinking skills.

Learning Outcomes: Upon successful completion of the Creative Writing program, students will have demonstrated the ability to:

- Read, analyze, and write works of creative prose and poetry.
- Suggest improvements (in writing and in discussion) to works evaluated, using concepts and vocabulary appropriate to the relevant literary genre.
- Revise own works of creative prose and poetry, applying concepts and techniques appropriate to the relevant literary genre.

Certificate of Training

Certificate Requirements	UNITS
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ENGL 31 Creative Writing I (3) or ENGL 32 Creative Writing II (3)	3
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Select four courses from the following (at least three of the four must be Creative Writing courses; courses may not be repeated; all courses must be taken at MPC.): 12

Creative Writing courses:

ENGL 31	Creative Writing I (3)
ENGL 32	Creative Writing II (3)
ENGL 51	Fiction Writing (3)
ENGL 52	Creative Nonfiction Writing (3)
ENGL 53	Poetry Writing (3)
ENGL 54	Novel Writing (3)

Literature Courses:

ENGL 5	Introduction to Great Books (3)
ENGL 10	Literature By and About Men (3)
ENGL 11	Literature By and About Women (3)
ENGL 17	Introduction to Shakespeare (3)
ENGL 18	The Bible as Literature (3)
ENGL 22	Introduction to Poetry (3)
ENGL 40	American Literature (3)
ENGL 44	masterpieces of Literature I (3)
ENGL 45	Masterpieces of Literature II (3)
ENGL 46	Survey of British Literature I (3)
ENGL 47	Survey of British Literature II (3)

TOTAL CERTIFICATE UNITS

15

NURSING

The Maurine Church Coburn School of Nursing offers an Associate in Science degree in nursing and is accredited by the National League for Nursing Accrediting Commission (NLNAC) and approved by the California Board of Registered Nursing (BRN). Completion of the program allows graduates to take the National Council Licensure Exam (NCLEX) for Registered Nursing. Graduates are prepared for entry-level RN positions. The curriculum provides hands-on experiences with a variety of healthcare populations, including geriatrics, medical, surgical, obstetrics, pediatrics, and psychiatric/mental health. Due to space limitations, completion of program prerequisites does not guarantee admission to the program. Applicants must achieve a satisfactory success index score for selection. Once selected, applicants must successfully complete a pre-entrance readiness test (and remediation plan if indicated) in order to be admitted.

Advanced placement candidates (LVNs/LPNs) must qualify by completing program prerequisites and then successfully completing a placement examination and performance-based preparation plan. [LVNs/LPNs may request to be admitted under the Board of Registered Nursing Regulation 1429, the 30-unit option, which does not confer a degree.]

Contact the Counseling Department or the School of Nursing for a detailed information and application packet which outlines the admissions requirements and process.

Learning Outcomes: Upon successful completion of the Nursing program, students will be able to:

- Collaborate as providers of patient-centered care in meeting the health care needs of individuals in acute, long-term and community-based settings.
- Coordinate the activities of the health care team, advocate on behalf of patients, teach patients and families, and direct safe nursing care as managers of care.
- Contribute to the profession as responsible members within the discipline of nursing.

Associate in Science (Career Technical Degree)

Complete Major, Competency Requirements, and 60 degree-applicable units. [*Nursing students who hold a baccalaureate degree from a regionally accredited college may not be required to complete additional general education units or coursework other than prerequisite courses and nursing courses required specifically for the nursing program. See nursing program counselor or Director, School of Nursing.]

Associate Degree Major Requirements	UNITS
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Prerequisite courses:

MATH 263*	Intermediate Algebra & Coord. Geom. OR higher math course	4
ENGL 1A	Composition	3
ANAT 1	General Human Anatomy	2
ANAT 2	General Anatomy Lab	2
BIOL 25	Applied Microbiology Lecture	3
BIOL 26	Applied Microbiology Lab	1
NURS 100	Pharmacology for Nursing	2
PHSO 1	General Human Physiology	3
PHSO 2	General Physiology Lab	2
PSYC 25	Child and Adult Development	3

General Education:

Communication Skills:

Select one course from the following: 3

- +SPCH 1 Public Speaking (3)
- SPCH 2 Small Group Communication (3)
- SPCH 3 Interpersonal Communication (3)

Humanities*:

Select one course from Monterey Peninsula College General Education Requirements list, Area C (see page 58). 3

Social Sciences:

Select one course from Monterey Peninsula College General Education Requirement list, Area D (see page 58). 3

- +SOC1 1 Humanity & Society (3)

Information Competency*:

Students must complete the Information Competency Graduation requirement (LIBR 50 or LIBR 80). However, students who complete NURS 52C will meet the equivalency for MPC graduation.

Nursing Core Courses:

- NURS 52A Nursing I 9
- NURS 52B Nursing II 9
- NURS 52C Nursing III 10
- NURS 52D Nursing IV 10

TOTAL DEGREE UNITS 72

*Required for MPC graduation but not required for the nursing program of study.

+Recommended for BSN Transfer.

Advanced Placement LVN students ONLY:

Qualified Advanced Placement LVN students may not need to take the following courses:

- NURS 52A Nursing I
- NURS 52B Nursing II

Advanced Placement LVN students ONLY must also take:

- NURS 65 Nursing Role Transition (4)

RESTAURANT MANAGEMENT

The Restaurant Management program recognizes that food service is one of the world’s largest industries. The industry includes all establishments that supply, prepare, and serve food outside the home or food to deliver to the home. Whether on a large or small scale, employment is available in hospitals, schools, retirement homes, restaurants, catering, and hotels/resorts.

Learning Outcomes: Upon successful completion of the Restaurant Management program, students will be able to:

- Monitor safety and sanitation procedures for an institution.
- Purchase, receive, store, prepare, hold, and serve food using appropriate industry practices.
- Use the HACCP system of food safety.
- Design a food and/or beverage service operation using cost analysis and acceptable business practices.
- Use financial management tools such as calculators, cash registers, computers.
- Provide customer service at an acceptable level.
- Work as a member of a team.
- Demonstrate knowledge of operational aspects of the restaurant/food service industry.

Associate in Science (Career Technical Degree)

Complete Major, MPC General Education Pattern, Competency Requirements, and 60 degree-applicable units.

Associate Degree Major Requirements UNITS

COOP 91.21	Hospitality Work Experience	1-4
HOSP 51	Intro. to the Hospitality Industry	3
HOSP 53	Food & Beverage Service Management	3
HOSP 56	Intro. to Hospitality Sales and Marketing	1.5
HOSP 63	Hospitality Supervision	1.5
HOSP 64	Customer Service	1
HOSP 65	Legal Issues in Hospitality	.5
HOSP 66	Practices in Hospitality	1
HOSP 67	Accounting for Hospitality Managers	1
HOSP 72	Culinary Arts Basics	.5
HOSP 180	Food Safety Certification	.5

Select two units from the following: 2

HOSP 73	Stocks, Soups, Sauces (.5)	
HOSP 74	Vegetables, Rice, Pasta (.5)	
HOSP 75	Fish, Poultry, Meat (.5)	
HOSP 76	Garde Manger (.5)	
HOSP 77	Bakeshop: Yeasted & Non-Yeasted Breads (.5)	
HOSP 78	Bakeshop: Basic Baking Tech. (.5)	
HOSP 79	Menu Planning/Presentation for Food Serv Prof'ls (.5)	
HOSP 81	Bakeshop: Pies and Tarts (.5)	
HOSP 82	Bakeshop: Cakes, Tortes & Decorating Tech. (.5)	
HOSP 83	Bakeshop: French Pastries/Rest.-Style Desserts (.5)	
HOSP 84	Intro. to Chocolate (.5)	
HOSP 85	Beverage Prep & Service (.5)	
HOSP 87	International Cuisine (.5)	
HOSP 89	Cooking for a Healthy Lifestyle (.5)	

Select four units from the following: 4

BUSC 125	Quickbooks (1)	
BUSI 44	Intro. to Business Ownership/Management (3)	
CSIS 50	MS Office Applications (2)	
& CSIS 50L	MS Office Applications Lab (1)	
FACS 56	Life Management (3)	
HOSP 57	Trends in Hospitality Sales & Marketing (1.5)	

Select one course from the following: 3-4

BUSI 1A	Financial Accounting (4)	
BUSI 120A	Basic Accounting (3)	

Select one course from the following: 3

BUSI 22	Human Behavior/Leadership (3)	
BUSI 42	Human Resource Management (3)	

Select one course from the following: 3

SPCH 1	Public Speaking (3)	
SPCH 2	Small Group Communication (3)	

TOTAL MAJOR UNITS 29.5-33.5

ANNOUNCEMENT OF COURSES

Course Descriptions and Numbering

All courses are listed alphabetically.

Not all courses listed in this catalog may be offered during the academic year.

Unit of credit or semester unit is a measure of time and study devoted to a course.

Hours for courses are listed as hours that the student will spend in class per week for the semester. Total hours spent in a class are listed for courses that are less than a semester in length. These hours may be lecture, laboratory, discussion, field study, studio, activity, or clinical.

Course Grading

The following course grading is found in the course description following the title of the course:

LG: Letter grade only

P/NP: Pass/No Pass grade only

LG-P/NP: Letter grade or Pass/No Pass grade

NC: Non-Credit

Course Repetition and Withdrawal Changes

Effective Summer 2012, Monterey Peninsula College implemented new limitations regarding course repetitions and withdrawals in a single course. These changes were mandated by the Board of Governor's Title 5 regulations. Students repeating a course in which they previously received a substandard grade of D, F, NC, NP and/or a non-evaluative symbol of W (Withdrawal) will be limited to a total of three enrollments.

Students are advised to carefully choose their courses each term to ensure successful completion. This new regulation is retroactive to Fall 1995. Therefore, some students may find that they have already exhausted the repeat and withdrawal limitation of three enrollments.

Course Repetition

A student may repeat a course only under the following conditions:

1. the student's prior evaluative grade in the course is a D, F, or NP; or the student withdrew from the course and received a W; after the second attempt and received D, F, or NP, the student will be required to petition the Academic Council for a third and final attempt; or

2. the College Catalog designates the course as repeatable and

the number of times it may be repeated; or

3. the student receives prior written permission from the Academic Council when the student can demonstrate that the course must be repeated in order to make progress toward employment and certification.

Course Numbers

The college has adopted the following numbering system effective Fall 2005:

1-99 BS/BA Level and Associate Degree

Courses numbered 1 through 99 are baccalaureate level courses, carrying lower division baccalaureate level credit at four-year colleges and universities. Not all courses numbered 1-99 are transferable to UC. Check the MPC Catalog description for transferability. "Baccalaureate applicable" courses in the 1 through 99 series meet the following criteria:

1. The course is parallel to one offered at a California State University or University of California campus and/or has been accepted as satisfying a general education requirement as indicated by the approved CSU-GE List (California State University General Education List) or the IGETC (Intersegmental General Education Transfer Curriculum).
2. The course has procedural rigor to meet the critical thinking and/or computational levels required for baccalaureate level courses.

Courses in this series are also associate degree applicable.

100-299 Associate Degree Only

Courses numbered 100 through 299 are associate degree level courses. They are generally, but not exclusively, career technical in nature. Courses numbered 100-199 may transfer at the discretion of the receiving institution.

If a student takes both ENGL 111 and 112, only one of the courses may be applied toward the associate degree.

300-399 Credit, Non-Degree Applicable

Courses numbered 300 through 399 are intended as developmental courses in reading, writing, mathematics, English as a Second Language, and study and learning skills. They may not be used to fulfill any degree requirements.

400-499 Non-credit

Courses numbered 400 through 499 are courses for which no credit is awarded.

ANTHROPOLOGY

ANTH 2 INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY

3 units • LG-P/NP • Three hours lecture

This course introduces the concepts, methods of inquiry, and scientific explanations for biological evolution and their application to the human species. Issues and topics will include, but are not limited to, genetics, evolutionary theory, human variation and biocultural adaptations, comparative primate anatomy and behavior, and the fossil evidence for human evolution. The scientific method serves as foundation of the course. Also offered online.

Advisories: ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area B2, D1; IGETC, Area 4A, 5B; MPC, Area B, D

ANTH 2L BIOLOGICAL ANTHROPOLOGY LABORATORY

1 unit • LG-P/NP • Three hours lab

This laboratory course is offered as a supplement to Introduction to Biological Anthropology either taken concurrently or in a subsequent term. Laboratory exercises are designed to introduce students to the scientific method and explore genetics, human variation, human and non-human primate anatomy and behavior, the primate/hominine fossil record and other resources to investigate processes that affect human evolution.

Prerequisites or corequisites: ANTH 2

Advisories: ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area B3; IGETC, Area 5B; MPC, Area B

ANTH 4 INTRODUCTION TO CULTURAL ANTHROPOLOGY

3 units • LG-P/NP • Three hours lecture

This course explores how anthropologists study and compare human culture. Cultural anthropologists seek to understand the broad arc of human experience focusing on a set of central issues: how people around the world make their living (subsistence patterns); how they organize themselves socially, politically and economically; how they communicate; how they relate to each other through family and kinship ties; what they believe about the world (belief systems); how they express themselves creatively (expressive culture); how they make distinctions among themselves such as through applying gender, racial and ethnic identity labels; how they have shaped and been shaped by social inequalities such as colonialism; and how they navigate culture change and processes of globalization that affect us all. Ethnographic case studies highlight these similarities and differences, and introduce students to how anthropologists do their work, employ professional anthropological research ethics and apply their perspectives and skills to understand humans around the globe. Also offered online.

Advisories: ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area D1; IGETC, Area 4A; MPC, Area D

ANTH 6 INTRODUCTION TO ARCHAEOLOGY AND PREHISTORY

3 units • LG-P/NP • Three hours lecture

This course is an introduction to the study of concepts, theories, data and models of anthropological archaeology that contribute to our knowledge of the human past. The course includes a discussion of the nature of scientific inquiry; the history and interdisciplinary nature of archaeological research; dating techniques; methods of survey, excavation, analysis, and interpretation; cultural resource management; professional ethics; and selected cultural sequences.

Advisories: ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area D1; IGETC, Area 4A; MPC, Area D

ANTH 8 PRIMATE BEHAVIORAL ECOLOGY

3 units • LG-P/NP • Three hours lecture

This course provides a concise introduction to nonhuman primate biology, comparative behavior, ecology, and conservation.

Advisories: Eligibility for ENGL 1A

Credit transferable: CSU, UC

AUTOMOTIVE TECHNOLOGY

AUTO 101 ENGINE REPAIR

4 units • LG-P/NP • Two hours lecture; six hours lab

This course covers repair and rebuilding of modern automotive engines. Topics include theory, disassembly, cleaning, inspection, diagnosis, and failure analysis. Provides preparation for Automotive Service Excellence (ASE) certification in A1 area.

Prerequisites: AUTO 100

AUTO 170 SMOG CHECK INSPECTION PROCEDURES

2.5 units • LG-P/NP • Two hours lecture; two hours lab

This course is an automotive technician training program for California's Smog Check Program. Students who successfully complete this course will have met the training requirements to be eligible for the Smog Check Inspector state licensing examination.

Advisories: AUTO 103; eligibility for ENGL 111 and 112 or ENSL 110 and 155

BUSINESS

BUSI 60 MONEY MANAGEMENT AND INVESTING

3 units • LG-P/NP • Three hours lecture

This course presents a how-to approach that covers financial goal setting, career and income considerations, spending controls, retirement planning and estate transfer. Step-by-step procedures are presented for protecting income and assets through investment in stocks, mutual funds and real estate. Also offered online.

Advisories: Eligibility for ENGL 1A

Credit transferable: CSU

BUSI 62 PRINCIPLES OF INVESTMENT

3 units • LG-P/NP • Three hours lecture

This course assists the student to understand fundamentals of various investments such as stocks, bonds and mutual funds through a familiarity with terminology and basic investment approaches. Also offered online.

Advisories: Eligibility for ENGL 1A

Credit transferable: CSU

General Ed. Credit: MPC, Area E2

COMPUTER SCIENCE AND INFORMATION SYSTEMS

CSIS 45 INTRODUCTION TO UNDERWATER ROBOTICS

4 units • LG • Three hours lecture; three hours lab

This class provides a foundation in robotics technology as applied to the ocean environment. Topics include the engineering process, Remotely Operated Vehicles (ROVs), Autonomous Underwater Vehicles (AUVs), electronics, sensors, manipulators, and programming.

Advisories: Eligibility for ENGL 1A

Credit transferable: CSU

DENTAL ASSISTING

DNTL 107 CORONAL POLISH

1 unit • LG • Total hours: Eight and one-half hours lecture; twenty-seven and one-half hours lab

This class provides a foundation in robotics technology as applied to the ocean environment. Topics include the engineering process, Remotely Operated Vehicles (ROVs), Autonomous Underwater Vehicles (AUVs), electronics, sensors, manipulators, and programming.

Prerequisites: DNTL 100, 102, and 104

Advisories: Eligibility for ENGL 1A

DNTL 108 PIT AND FISSURE SEALANTS

1 unit • LG • Total hours: Eight and one-half hours lecture; twenty-seven and one-half hours lab

In this course, students learn the proper application of pit and fissure sealants for prevention of dental caries.

Prerequisites or corequisites: DNTL 100, 102, 104, and 107

Advisories: Eligibility for ENGL 1A

EMERGENCY MEDICAL SERVICES

EMMS 170 EMERGENCY MEDICAL TECHNICIAN 1: BASIC TRAINING

6 units • LG-P/NP • Five hours lecture; three hours lab

Students learn the techniques of emergency medical care designed to meet the State of California Requirements for certification of EMT-1 (ambulance) personnel.

Prerequisites: CPR BCLS (Healthcare Provider, either AHA or Red Cross Providers – 2010 guidelines or most recent)

General Ed. Credit: MPC, Area E2

ENGINEERING

ENGR 1A INTRODUCTION TO ENGINEERING

3 units • LG-P/NP • Three hours lecture; one hour lab

This course explores careers in engineering, science, and technology, including the role and the function of engineering in modern society, problems and responsibilities of the engineering profession, and an introduction to the methods of engineering analysis, design, and problem solving.

Advisories: Eligibility for ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: MPC, Area E2

ENGR 2 ENGINEERING DESIGN GRAPHICS

3 units • LG • Two hours lecture; three hours lab

This course introduces the graphical tools used by engineers to support and enhance the engineering design process. Topics include spatial reasoning skills, orthographic projections, mechanical dimensioning and tolerancing practices, and the engineering design process. Assignments develop sketching and 2-D and 3-D CAD skills. The use of CAD software is an integral part of the course. Also offered online.

Advisories: ENGL 1A; MATH 262

Credit transferable: CSU, UC

ENGR 4 ENGINEERING MATERIALS

4 units • LG-P/NP • Three hours lecture; three hours lab

This course presents the internal structure and physical properties of materials used in engineering applications, including metals, ceramics, polymers, composites, and semiconductors. Through analytical and experimental work, students develop the ability to select appropriate materials and understand the effects of heat, stress, imperfections, and other environmental factors on material performance. Also offered online.

Prerequisites: CHEM 1A; PHYS 3A

Advisories: ENGL 1A

Credit transferable: CSU, UC

ENGR 12 ENGINEERING CIRCUITS

4 units • LG-P/NP • Three hours lecture; three hours lab

This course introduces the analysis of electrical circuits containing resistors, capacitors, inductors, dependent sources, op-amps, and/or switches. Topics include circuit laws, network theorems, superposition, natural and forced responses, complex phasors, power, energy, and associated calculations. Also offered online.

Prerequisites: PHYS 3B

Corequisites: ENGR 12L

Advisories: ENGL 1A

Credit transferable: CSU, UC

ENGR 12L ENGINEERING CIRCUITS LABORATORY

1 unit • LG-P/NP • Three hours lab

Students build, measure, analyze, and model standard electronics circuits while verifying theoretical circuit principles. Multimeters, oscilloscopes, power supplies, function generators, and circuit simulation tools are used to collect data and describe circuit behavior. Laboratory projects present circuits similar to those covered in ENGR12 while also introducing semiconductor components such as diodes, transistors, and other integrated circuits. Also offered online.

Corequisites: ENGR 12

Credit transferable: CSU, UC

ENGR 17 TECHNICAL COMPUTING WITH MATLAB

3 units • LG-P/NP • Three hours lecture; one hour lab

This course utilizes the MATLAB environment to provide students with a working knowledge of computer-based problem-solving methods relevant to science and engineering. Topics include programming techniques, data visualization, numerical analysis, symbolic manipulation, and simulation. Representative examples are drawn from engineering, science, and mathematics. Also offered online.

Prerequisites or corequisites: MATH 18 or 20A

Advisories: ENGL 1A

Credit transferable: CSU, UC

ENGR 50 ROBOTICS

1 unit • LG-P/NP • .75 hour lecture; .75 hour lab

This is a hands-on introduction to modern robotics using the BASIC Stamp microcontroller. Topics include construction, movement, object detection/avoidance, and programming. Students may purchase their own robotics kit or use school-provided kits. No prior electronics experience needed.

Advisories: CSIS 1; eligibility for ENGL 1A

Credit transferable: CSU

ENGR 52 INTRODUCTION TO MATLAB

.5 unit • LG-P/NP • Total hours: Seven hours lecture; five hours lab

This is a hands-on introduction to modern robotics using the BASIC Stamp microcontroller. Topics include construction, movement, object detection/avoidance, and programming. Students may purchase their own robotics kit or use school-provided kits. No prior electronics experience needed.

Advisories: Eligibility for ENGL 1A; eligibility for MATH 10, 13, 16, 17, or 18

Credit transferable: CSU

ENGLISH

ENGL 52 CREATIVE NONFICTION WRITING

3 units • LG-P/NP • Three hours lecture

This course covers the study and practice of creative nonfiction writing. It includes the reading and discussion of works by established authors, lectures, and sharing of original student work in a supportive writing workshop environment. Not a substitute for the English composition requirement for a Bachelor's degree.

Prerequisites: ENGL 1A

Credit transferable: CSU

ENGL 53 POETRY WRITING

3 units • LG-P/NP • Three hours lecture

This course covers the study and practice of poetry writing. It includes the reading and discussion of works by established poets, lectures, and sharing of original student work in a supportive writing workshop environment. Not a substitute for the English composition requirement for a Bachelor's degree.

Prerequisites: ENGL 1A

Credit transferable: CSU

ENGL 54 NOVEL WRITING

3 units • LG-P/NP • Three hours lecture

This course covers the study and practice of long-form fiction writing, including the novel and novella. It includes the reading and discussion of works by established authors, lectures, and sharing of original student work in a writing workshop environment. Not a substitute for the English composition requirement for a Bachelor's degree.

Prerequisites: ENGL 1A

Credit transferable: CSU

ENGLISH AS A SECOND LANGUAGE

ENSL 326/426 ENGLISH SKILLS FOR SUCCESS I

.5-4 units/0 units • P/NP • Total hours: Seventeen hours lecture for each unit of credit

This is a course at the high-beginning or low-intermediate level for the non-native speaker, emphasizing listening and conversation.

Advisories: ENSL 312 and 313; or ENSL 412 and 413; or qualifying assessment score

ENSL 328/428 PRONUNCIATION AND SPELLING

4 units/0 units • P/NP • Four hours lecture

This is a course for beginning and intermediate students including a systematic introduction to understanding, pronouncing, spelling, and reading English with emphasis on speech from individual sounds through multi-syllable words.

Advisories: ENSL 312 and 313; or ENSL 412 and 413; or qualifying assessment score

ENSL 336/436 ENGLISH SKILLS FOR SUCCESS II

.5-4 units/0 units • P/NP • Total hours: Seventeen hours lecture for each unit of credit

This is a course at the low-intermediate level for the non-native speaker, emphasizing listening, speaking, grammar and writing.

Advisories: ENSL 312, 323, and 325; or ENSL 412, 423, and 425; or qualifying assessment score

ETHNIC STUDIES

ETNC 31 NATIVE AMERICAN WOMEN

3 units • LG-P/NP • Three hours lecture

History, culture, and current issues of native women of North and Central America. Also offered as Women's Studies 31; credit may be earned only once.

Prerequisites: ENGL 1A
Credit transferable: CSU

ETNC 45 INTRODUCTION TO LANGUAGE AND SOCIETY

3 units • LG-P/NP • Three hours lecture

This course examines the interaction of language with society and the individual and how language establishes power, ethnicity, gender and social identity. Students are also introduced to linguistic diversity in U.S. society today and methodology for sociolinguistic analysis of conversations. Also offered as LING 45; credit may be earned only once. Also offered online.

Advisories: Eligibility for ENGL 1A

Credit transferable: CSU

General Ed. Credit: MPC, Area C, D

FIRE PROTECTION TECHNOLOGY

FIRE 105 FIREFIGHTER 1 ACADEMY

21 units • P/NP • Total hours: Two hundred thirty-eight hours lecture by arrangement; three hundred seventy-four hours lab by arrangement

This course provides the students with the State Fire Marshal's Office educational requirements for certification as Firefighter I.

Prerequisites: EMMS 170; Biddle, CPAT, or JPAC physical agility test; physical examination

FIRE 132 FIRE SERVICES SAFETY AND SURVIVAL

3 units • LG • Three hours lecture

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavioral change throughout emergency services.

Advisories: ENGL 111

FIRE 213 FIRE TECHNOLOGY SKILLS AND KNOWLEDGE MODULES

.5-15 units • P/NP • Total hours: Seventeen hours lecture by arrangement for each unit of credit

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavioral change throughout emergency services.

Advisories: ENGL 111

GEOLOGY

GEOL 8 EARTH CATASTROPHES AND DISASTERS

3 units • LG-P/NP • Three hours lecture

This course covers the application of basic principles of Earth processes, including tectonics, erosion, climate and wind, as well as issues of catastrophic and disastrous events from a global perspective. Topics include earthquakes, landslides, floods, severe weather, tsunamis, and volcanoes. The course emphasizes using the scientific method to interpret the causes and future probabilities of Earth catastrophes and disasters.

Corequisites: GEOL 8L

Advisories: Eligibility for ENGL 1A; eligibility for MATH 263

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area B1, B3; IGETC, Area 5A; MPC, Area B

GEOL 8L EARTH CATASTROPHES AND DISASTERS LAB

1 unit • LG-P/NP • Three hours lab by arrangement

This course offers fundamental laboratory study and examination of the topics introduced in GEOL 8. Local field trips are required.

Corequisites: GEOL 8

Advisories: Eligibility for ENGL 1A; eligibility for MATH 263

Credit transferable: CSU, UC

HISTORY

HIST 7 THE ANCIENT WORLD: WORLD CIVILIZATION TO 1500

3 units • LG-P/NP • Three hours lecture

This course examines the main contours of world civilization before 1500. It highlights the origins of humankind, of agriculture, and of urban-based civilizations and emphasizes the connections among the early world's diverse societies and the similarities and differences in their ancient histories.

Advisories: ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area C2, D6; IGETC, Area 3B, 4F; MPC, Area D

HIST 8 THE MODERN WORLD: WORLD CIVILIZATION SINCE 1500

3 units • LG-P/NP • Three hours lecture

Examines major world issues over the past 500 years. Topics include European expansion and colonialism, the Muslim empires, East Asia from Ming to Qing, the Americas, Africa, the scientific-technological revolution, decolonization, and modern environmental problems.

Advisories: ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area C2, D6; IGETC, Area 3B, 4F; MPC, Area D

HIST 17 HISTORY OF THE UNITED STATES I

3 units • LG-P/NP • Three hours lecture

This course presents ethnic, physical, economic, social and cultural influences on development of the United States from pre-Colonial times to the Reconstruction Era. Emphasis is placed on legacies derived from this earlier period of U.S. history. Satisfies the CSU American History requirement. Also offered online.

Advisories: ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area D6; IGETC, Area 3B; MPC, Area D

HIST 40 THE AFRICAN EXPERIENCE

3 units • LG-P/NP • Three hours lecture

This course surveys geography, history, culture, politics, and economics of Africa south of the Sahara, and its relation with the Atlantic world. Also offered as Ethnic Studies 40; credit may be earned only once.

Advisories: ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area C2, D6; IGETC, Area 3B, 4F; MPC, Area D

HUMAN SERVICES

HUMS 60 PRACTICES IN HUMAN SERVICES

1 unit • LG-P/NP • One hour lecture

This course provides advanced study and opportunity to share concerns regarding experience in public and private agencies offering human services. Students apply concepts, values, and skills acquired in other core courses to the process of helping others.

Prerequisites: HUMS 50

Advisories: Eligibility for ENGL 1A

Credit transferable: CSU

INTERIOR DESIGN

INTD 56 HISTORY OF INTERIOR ARCHITECTURE AND FURNITURE I

3 units • LG-P/NP • Three hours lecture

This course covers the foundations of architecture and furniture styles of the world from antiquity to the early 1800s. Topics include social, cultural, political, and physical factors affecting the design and development of specific styles and periods--architecture, interior design, furniture, decorative arts, textiles, and ornamental design.

Advisories: Eligibility for ENGL 111 and 112 or ENSL 110 and 155

Credit transferable: CSU

INTD 56 HISTORY OF INTERIOR ARCHITECTURE AND FURNITURE I

3 units • LG-P/NP • Three hours lecture

This course covers the foundations of architecture and furniture styles of the world from antiquity to the early 1800s. Topics include social, cultural, political, and physical factors affecting the design and development of specific styles and periods--architecture, interior design, furniture, decorative arts, textiles, and ornamental design.

Advisories: Eligibility for ENGL 111 and 112 or ENSL 110 and 155

Credit transferable: CSU

LINGUISTICS

LING 10 FOUNDATIONS OF LANGUAGE

3 units • LG-P/NP • Three hours lecture; one hour lab by arrangement

This course facilitates language teaching, learning, interpreting, and the understanding of the structure and nature of language. Students analyze English, with opportunities to compare it to a language of their choice. Language acquisition, processing, production, the language instinct, and the similarity and universality among the world's languages are discussed. Also offered online.

Advisories: Eligibility for ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area C2; IGETC, Area 3B; MPC, Area C

LING 15 INTRODUCTION TO LINGUISTICS

3 units • LG-P/NP • Three hours lecture

This course introduces students to the science of language, focusing on its role in social interaction, identity, and world view. First- and second-language acquisition, sign language, writing, gendered language, dialects, and language change are also examined. Also offered online.

Advisories: Eligibility for ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area C2, D7; IGETC, Area 3B, 4G; MPC, Area C, D

LING 45 INTRODUCTION TO LANGUAGE AND SOCIETY

3 units • LG-P/NP • Three hours lecture

This course examines the interaction of language with society and the individual and how language establishes power, ethnicity, gender and social identity. Students are also introduced to linguistic diversity in U.S. society today and methodology for sociolinguistic analysis of conversations. Also offered as Ethnic Studies 45; credit may be earned only once. Also offered online.

Advisories: Eligibility for ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: MPC, Area C, D

LING 46 INTRODUCTION TO PSYCHOLINGUISTICS

3 units • LG-P/NP • Three hours lecture

This course introduces how people acquire a language, how they speak and understand a language, and how language is processed and represented in the brain. The biological and cultural foundations for language are also presented. Also offered online.

Advisories: Eligibility for ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area D1; MPC, Area C, D

MARINE SCIENCE AND TECHNOLOGY

MAST 10 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS), GLOBAL POSITIONING SYSTEMS (GPS), AND CARTOGRAPHY

4 units • LG-P/NP • Three hours lecture; three hours lab

This course is an introduction to the fundamentals of Geographic Information Systems (GIS), Global Positioning Systems (GPS) and computer cartography. Students define a problem and use GIS (ArcView) and GPS to develop a methodology to study, analyze, and develop solutions for solving it.

Advisories: CSIS 1; eligibility for MATH 263; eligibility for ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: MPC, Area A2

MATHEMATICS

MATH 32 DIFFERENTIAL EQUATIONS

3 units • LG • Four hours lecture

This course covers an introduction to ordinary differential equations with classical solutions, using Laplace transforms and series solutions. Various applications are explored.

Corequisites: MATH 20C

Advisories: ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area B4; IGETC, Area 2A

MATH 440 SUPERVISED TUTORING: MATHEMATICS

0 unit • NC • Total hours: Eight and one-half to three hundred forty hours lab by arrangement

This course is designed to provide supervised tutoring for students concurrently enrolled in a basic skills mathematics course or any course that requires basic mathematics skills to complete the course work.

Enrollment limitation: Must be referred by an instructor.

NURSING

NURS 160A ROLE DEVELOPMENT FOR NURSING STUDENTS GUIDED LAB

1 unit • P/NP • Three hours lab

This lab-only course is designed for nursing students who previously completed NURS 160 and would benefit from additional guided lab experiences to develop strategies for success in the associate degree curriculum. Lab practice includes nursing skills, care planning, dosage calculation practice, study skill development, time management strategies, and professional role socialization.

Prerequisites: NURS 160

NURS 204 SUPERVISED NURSING SKILLS LAB I

.5-4 units • P/NP • Three hours lab per week for each unit of credit

This course provides the opportunity for students to review current content and procedures taught in first semester level nursing courses, and to participate in supervised practice.

NURS 205 SUPERVISED NURSING SKILLS LAB II

.5-4 units • P/NP • Three hours lab per week for each unit of credit

This course provides the opportunity for students to review current content and procedures taught in an advanced beginning nursing course, and to participate in supervised practice.

NURS 206 SUPERVISED NURSING SKILLS LAB III

.5-4 units • P/NP • Three hours lab per week for each unit of credit

This course provides the opportunity for students to review current content and procedures taught in an intermediate nursing course, and to participate in supervised practice.

NURS 207 SUPERVISED NURSING SKILLS LAB IV

.5-4 units • P/NP • Three hours lab per week for each unit of credit

This course provides the opportunity for students to review current content and procedures taught in nursing courses, and to participate in supervised practice.

PHYSICAL EDUCATION

PHED 12C COMPETITIVE SWIMMING II

1 unit • LG-P/NP • Four hours activity

Students develop swimming skills and physical conditioning appropriate for competitive swimming at the intermediate level.

Prerequisites: PHED 12B

Credit transferable: CSU, UC

General Ed. Credit: MPC, Area E1

PHED 21 COMPETITIVE GOLF

.5 unit • LG-P/NP • Two hours activity

This course is designed to build the skills and techniques required for playing competitive golf.

Credit transferable: CSU

General Ed. Credit: MPC, Area E1

PHED 40 INTRODUCTION TO KINESIOLOGY

3 units • LG-P/NP • Three hours lecture

This course explores the broad spectrum of kinesiology as an academic discipline, fundamental concepts and meaning of movement/physical activity, diversity of humans as moving beings, professional/career options, current issues, personal characteristics/professional responsibilities, and the initiation of a professional portfolio.

Advisories: Eligibility for ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: MPC, Area E2

PHED 41 PREVENTION AND CARE OF ATHLETIC INJURIES

3 units • LG-P/NP • Three hours lecture

Students learn modern athletic training principles. Course covers procedures and techniques for prevention, recognition, treatment and rehabilitation of athletic injuries.

Advisories: Eligibility for ENGL 1A

Credit transferable: CSU, UC

PHYSICAL FITNESS

PFIT 30 INTRODUCTION TO TRIATHLON TRAINING

1 unit • LG-P/NP • Four hours activity

In this course, students learn to design and implement personal training programs for triathlon events, developing skills in open-water swimming, cycling, and running. Emphasis is on combining these skills for effective triathlon competition.

Advisories: PHED 7B or intermediate swimming skills

Credit transferable: CSU, UC

General Ed. Credit: MPC, Area E1

PHYSICS

PHYS 2A GENERAL PHYSICS I

4 units • LG • Three hours lecture; three hours lab; one hour problem session

This course covers basic mechanics, including kinematics, Newton's Laws, gravitation, work, energy, momentum, rotation, static equilibrium, oscillations and wave motion, fluids, and thermodynamics.

Advisories: MATH 13; eligibility for ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area B1, B3; IGETC, Area 5A; MPC, Area B

PHYS 3A SCIENCE AND ENGINEERING PHYSICS I

4 units • LG • Three hours lecture; three hours lab; one hour problem session

This course covers topics in mechanics, including kinematics, Newton's laws, gravitation, work, energy, momentum, rotation, static equilibrium, fluids, and oscillations.

Prerequisites: MATH 20A

Advisories: Eligibility for ENGL 1A

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area B1, B3; IGETC, Area 5A; MPC, Area B

PHYS 3B SCIENCE AND ENGINEERING PHYSICS II

4 units • LG • Three hours lecture; three hours lab; one hour problem session

This course covers topics in electricity and magnetism and an introduction to relativity.

Prerequisites: PHYS 3A

Corequisites: MATH 20C

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area B1, B3; IGETC, Area 5A

PHYS 3C SCIENCE AND ENGINEERING PHYSICS III

4 units • LG • Three hours lecture; three hours lab; one hour problem session

This course covers topics in heat, light, waves and introductory quantum theory.

Prerequisites: PHYS 3A

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area B1, B3; IGETC, Area 5A

PHYS 3C SCIENCE AND ENGINEERING PHYSICS III

4 units • LG • Three hours lecture; three hours lab; one hour problem session

This course covers topics in heat, light, waves and introductory quantum theory.

Prerequisites: PHYS 3A

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area BI, B3; IGETC, Area 5A

PHYS 10 INTRODUCTION TO PHYSICS

4 units • LG-P/NP • Three hours lecture; three hours lab

This is a non-mathematical conceptual course for the non-science major. It covers the evolution of physical concepts and their importance and application in the modern world.

Advisories: Eligibility for ENGL 1A; eligibility for MATH 261

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area BI, B3; IGETC, Area 5A; MPC, Area B

REAL ESTATE

REAL 50 PRINCIPLES OF REAL ESTATE

3 units • LG-P/NP • Three hours lecture

Students are provided an overview of principles, definitions and problem-solving in the field of real estate in California. Provides consumer information. This course meets qualification requirement for California State Real Estate License Examinations. Also offered online.

Advisories: Eligibility for ENGL 1A

Credit transferable: CSU

General Ed. Credit: MPC, Area E2

THEATRE ARTS

THEA 15A BEGINNING ACTING

3 units • LG-P/NP • Two hours lecture; three hours lab

This course prepares a student to apply basic acting theory to performance and develops the skills of interpretation of drama through acting.

Special attention is paid to skills for performance: memorization, stage movement, vocal production, and interpretation of text.

Advisories: Eligibility for ENGL 1A; must be age 17 or older due to mature content

Credit transferable: CSU, UC

General Ed. Credit: MPC, Area C

THEA 15B INTERMEDIATE ACTING

3 units • LG-P/NP • Two hours lecture; three hours lab

This course is a continuation of THEA 15A. It continues the exploration of theories and techniques used in preparation for the interpretation of drama through acting. Emphasis is placed on deepening the understanding of the acting process through character analysis, monologues, and scenes.

Prerequisites: THEA 15A

Credit transferable: CSU

THEA 15C ADVANCED ACTING

3 units • LG-P/NP • Two hours lecture; three hours lab

This course is a continuation of THEA 15B. It continues the exploration of theories and techniques used in preparation for the interpretation of drama through acting. Emphasis is on naturalistic acting techniques as devised by Constantin Stanislavski.

Prerequisites: THEA 15B

Credit transferable: CSU

THEA 18B INTERMEDIATE DIRECTING

3 units • LG-P/NP • Two hours lecture; three hours lab

This course is a continuation of THEA 18A, with an emphasis on scene and character breakdown and communication in directing techniques.

Prerequisites: THEA 18A

Credit transferable: CSU

WOMEN'S STUDIES

WOMN 31 NATIVE AMERICAN WOMEN

3 units • LG-P/NP • Three hours lecture

This course explores the history, culture, and current issues of native women of North and Central America. Also offered as Ethnic Studies 31; credit can be earned only once.

Advisories: Eligibility for ENGL 111 or ENSL 110

Credit transferable: CSU, UC

General Ed. Credit: CSU, Area D1, D3, D4; IGETC, Area 4A, 4C, 4D; MPC, Area D