ECN 001A PERSONAL GROWTH-INCREASING SELF-ESTEEM 1.0 UNIT
Total Lecture: 18 hours
This course assists students in increasing an awareness of themselves and others, identifying strengths and weaknesses in potential for personal growth, and enhancing self-esteem. It is designed to increase their ability to function more effectively and to handle personal problems and decisions. Topics to be addressed are self-esteem, developing and reaching goals, identifying fears and learning how to overcome them, clarifying values, and improving communication skills. Pass/No Pass Option.

COU 055 VALUING DIVERSITY 3.0 UNITS
Total Lecture: 54 hours
This course addresses the complexities of interpersonal relationships among and between several cultures and ethnic groups within our society. Students examine cultural perceptions, while exploring self-concepts, values, beliefs, communication styles, religion, gender, ageism, and lifestyles in order to promote respect for differences and develop a sense of community. Pass/No Pass Option. CSUGE: D; EGETC: 4.

ECN 006 THE GLOBAL ECONOMY 3.0 UNITS
Total Lecture: 54 hours
Acceptable for credit: University of California, California State University
This course examines the core concepts and prominent forces of international economics and the relationships of nations and their economic policies. Opinions and viewpoints from a range of individuals in the private and public sector from around the globe are presented to expand insight into the increasing economic interdependence of nations. This course is cross-listed as GLB 006 and SOC 006. This course may be offered via distance learning. Pass/No Pass Option. CSUGE: D; IGETC: 4.

ENGINEERING (EGR)

EGR 010 INTRODUCTION TO ENGINEERING 4.0 UNITS
Total Lecture: 54 hours, Total Lab: 54 hours
Advisory: MAT 903
Acceptable for credit: University of California, California State University
This course exposes students to the field of engineering and the various engineering disciplines. Course presents the basic skills necessary to succeed as an engineering student. The nature of engineering work and the roles of engineers are explored. The Engineering Design Process is addressed through multiple team-based projects and engineering problem-solving topics. Communication skills for technical presentations and reports are developed through practical engineering scenarios. Guest speakers from local engineering firms and tours to local companies are included. Pass/No Pass Option. C-ID#110

EGR 010H INTRODUCTION TO ENGINEERING – HONORS 4.0 UNITS
Total Lecture: 54 hours, Total Lab: 54 hours
Advisory: MAT 903 or MAT 903M
Acceptable for Credit: California State University, University of California
This course is the honors version of Introduction to Engineering. This course exposes students to the field of engineering and the various engineering disciplines. Course presents the basic skills necessary to succeed as an engineering student. The nature of engineering work and the roles of engineers are explored. The Engineering Design Process is addressed through multiple team-based projects and engineering problem-solving topics. Communication skills for technical presentations and reports are developed through practical engineering scenarios. Guest speakers from local engineering firms and tours to local companies are included. Students may not receive credit for both EGR 010 and EGR 010H. Enrollment in the Honors Transfer Project is required. Pass/No Pass Option. C-ID#110

EGR 023 MECHANICS - STATICS 3.0 UNITS
Total Lecture: 54 hours
Prerequisite: MAT 003B or any higher level math and PHY 004A
Acceptable for credit: University of California, California State University
This course applies the principles of mechanics to evaluate the static equilibrium of two- and three-dimensional engineering structures. Topics include the equilibrium of particles, equivalent force systems, equilibrium of rigid bodies, distributed loads, internal forces in beams, sheers and bending moment diagrams, truss analysis, and friction. This course is primarily for engineering transfer students. This course may also be offered via distance learning. Grade only. C-ID # ENGR 130, C-ID#130.
EGR 024  INTRODUCTION TO CIRCUIT ANALYSIS  3.0 UNITS
Total Lecture: 54 hours
Advisory: MAT 004A
Prerequisite: MAT 003B and PHY 004B
Acceptable for credit: University of California, California State University
This is an introductory course in the analysis of electric circuits. The emphasis is on analysis and setting up equations arising from the applications of Kirchoff's Laws, Ohm's Law, and Thévenin’s & Norton’s Theorems, both in DC and AC circuits. Topics include mesh and nodal analysis, periodic forcing functions, phasors, frequency response, resonant circuits, transient responses, dependent sources, and operational amplifiers. This course is primarily for engineering transfer students. Grade only.

EGR 024L  INTRODUCTION TO CIRCUIT ANALYSIS LAB  1.0 UNIT
Total Lab: 54 hours
Advisory: MAT 003B, PHY 004B
Corequisite: EGR 024
Acceptable for credit: University of California, California State University
Introduction to Circuit Analysis Lab. This course is an introduction to the construction and measurement of electrical circuits. Basic use of electrical test and measurement instruments including multimeters, oscilloscopes, power supplies, and function generators. Use of circuit simulation software. Interpretation of measured and simulated data based on principles of circuit analysis for DC, transient, and sinusoidal steady-state (AC) conditions. Construction and measurement of basic operational amplifier circuits. This course is primarily for engineering transfer students. Grade only.

EGR 025  ENGINEERING GRAPHICS AND DESIGN  4.0 UNITS
Total Lecture: 54 hours, Total Lab: 54 hours
Prerequisite MAT 000D or MAT 002 or MAT 003A or MAT 003AH
Acceptable for credit: University of California, California State University
This course develops graphical visualization and design skills by applying graphics based engineering methods. The course also teaches engineering design by applying the conceptual design process and integrating graphics into design projects. Graphics assignments develop sketching, manual drafting, and computer aided drafting (CAD) skills. This course is primarily for engineering transfer students. Grade only. C-ID#150

EGR 026  ENGINEERING MATERIALS  4.0 UNITS
Total Lecture: 54 hours, Total Lab: 54 hours
Prerequisite: CHM 001A, MAT 003B, PHY 004A
Acceptable for credit: University of California, California State University
This course presents the internal structures and resulting behaviors of materials used in engineering applications, including metals, ceramics, polymers, composites, and semiconductors. The emphasis is upon developing the ability both to select appropriate materials to meet engineering design criteria and to understand the effects of heat, stress, imperfections, and chemical environments upon material properties and performance. Laboratories provide opportunities to directly observe the structures and behaviors discussed in the course, to operate testing equipment, to analyze experimental data, and to prepare reports. This course may be offered via distance learning. Grade only. C-ID # ENGR 140B, C-ID#140B

EGR 030  INTRODUCTION TO COMPUTING FOR ENGINEERS  4.0 UNITS
Total Lecture: 54 hours, Total Lab: 54 hours
Advisory: MAT 003A and CIS 002
Acceptable for credit: University of California, California State University
This course introduces software development using a high level language such as C or C++. Engineering problems are solved through software programming techniques and by interfacing software to hardware circuits. A microcontroller system such as Arduino is used. Pass/No Pass Option. C-ID # ENGR 220.

ENGLISH (ENG)

ENGLISH (ENG)

Placement in any English class is based on a placement test for new students or a grade of C or better in a previous course for continuing students. Students needing to take a placement test go directly to the Testing Center or call 408-855-5099.

ENG 001A  ENGLISH COMPOSITION  3.0 UNITS
Total Lecture: 54 hours
Prerequisite: ESL 980 or ENG 908 or ENG 905AC or completion of the Mission College Placement Assistance Tool prior to registration.
Acceptable for credit: University of California, California State University
This course emphasizes the techniques of English composition with emphasis on the process of learning to write clearly and effectively and to read analytically. English 001A fulfills the English requirement for the Associate degree; this is a baccalaureate course. This course may be offered via distance learning. Pass/No Pass Option. C-ID # ENGL 100. CSUGE: A2; IGETC: 1A.

ENG 001AX  INTENSIVE ENGLISH COMPOSITION  5.0 UNITS
Total Lecture: 90 hours
Prerequisite ESL 980 or ENG 908 or ENG 905AC or completion of the Mission College Placement Assistance Tool prior to registration.
Acceptable for credit: University of California, California State University
This course introduces the techniques of collegiate English composition with emphasis on clear, effective writing and analytical reading. Students will learn to think critically about their own writing and will receive extensive support throughout the writing process. Areas of support will include close reading, textual analysis, finding and correctly incorporating credible, relevant source material, and acclimating to a college academic environment. English 1AX fulfills the English requirement for the Associate degree. This course also satisfies the composition requirement for baccalaureate degrees. This course may be offered via distance learning. Grade Only. CSUGE: A2; IGETC: 1A.

ENG 001B  ENGLISH COMPOSITION AND LITERATURE  3.0 UNITS
Total Lecture: 54 hours
Prerequisite: ENG 001A OR ENG 001AX
Acceptable for credit: University of California, California State University
This course continues emphasis on English composition skills with an introduction to techniques of reading and writing about literature and acquiring skills in analysis and interpretation. This course may be offered via distance learning. Grade only. C-ID # ENGL 120. CSUGE: A3; C2; IGETC: 1B.

ENG 001C  CLEAR THINKING IN WRITING  3.0 UNITS
Total Lecture: 54 hours
Prerequisite: ENG 001A OR ENG 001AX
Acceptable for credit: University of California, California State University
This course continues an emphasis on English composition skills and enhancing critical thinking, particularly in the reading and writing of arguments. Course content includes analytical reading skills and methods of analysis, principles of logic, techniques of reasoning and style, and research skills. This course may be offered via distance learning. Grade only. C-ID # ENGL 105. CSUGE: A3; IGETC: 1B.