

## 18 Ignition and Fuel Metering Systems Laboratory (2) CSU

*Corequisite: Must be taken concurrently with Aviation Maintenance Technician 17.*

Instruction and practice is offered in inspecting, checking, servicing, troubleshooting, and repairing aircraft ignition and fuel metering systems.

## 19 Reciprocating Powerplant Overhaul (4) CSU

*Prerequisites: Aviation Maintenance Technician 15 and 17.*

*Corequisite: Must be taken concurrently with Aviation Maintenance Technician 20.*

Instruction is offered in the maintenance, maintenance publications, and basic engine theory and overhaul procedures of reciprocating engines.

## 20 Reciprocating Powerplant Overhaul Laboratory (2) CSU

*Prerequisites: Aviation Maintenance Technician 16 and 18.*

*Corequisite: Must be taken concurrently with Aviation Maintenance Technician 19.*

Instruction and practice is offered in the use of maintenance publication records relative to overhaul procedures. Complete engine over-haul procedures, methods and practice are presented.

## 21 Powerplant Troubleshooting and Testing (4) CSU

*Prerequisite: Aviation Maintenance Technician 19.*

*Corequisite: Must be taken concurrently with Aviation Maintenance Technician 22.*

Instruction is offered in powerplant inspection and troubleshooting procedures. Course includes turbine engine theory and operation.

## 22 Powerplant Troubleshooting and Testing Laboratory (2) CSU

*Prerequisite: Aviation Maintenance Technician 20.*

*Corequisite: Must be taken concurrently with Aviation Maintenance Technician 21.*

Instruction and practice is offered in the installation, operation, and troubleshooting of aircraft powerplants.

## 23 Inspection and Evaluation (4) CSU

*Prerequisite: Aviation Maintenance Technician 1-22, or authorization for written exams. Corequisite: Must be taken concurrently with Aviation Maintenance Technician 24.*

Instruction is offered in conducting 100-hour inspections. General airframe and powerplant subjects for the Airframe and/or Powerplant License are reviewed. Emphasis is placed on preparation for Federal Aviation Administration written examinations. Note: Students must have a minimum 2.0 GPA in Aviation Maintenance Technology prior to enrolling in AMT 23 and AMT 24.

## 24 Inspection and Evaluation Laboratory (2) CSU

*Prerequisite: Aviation Maintenance Technician 1-22 or authorization for written exams. Corequisite: Must be taken concurrently with Aviation Maintenance Technician 23.*

Instruction and practice is offered in conducting a 100-hour inspection on an airframe and powerplant, using the

appropriate reference material and correct procedures to determine airworthiness of an airframe or powerplant. Students perform general practical airframe and powerplant projects. Note: Students must have a minimum 2.0 GPA in Aviation Maintenance Technology prior to enrolling in AMT 23 and AMT 24.

## BIOLOGY

(Also see Anatomy, Environmental Science, Microbiology, and Physiology)

### 3 Introduction to Biology (4)

This is a course in general biology designed to fulfill a laboratory science requirement for students not majoring in biology. Students must be enrolled concurrently in a lecture and a lab section. The lecture portion of the course (Biology 3A) emphasizes the basic principles in biology and the fundamental characteristics of all living organisms. Lecture topics include the scientific method, cell structure and function, levels of organization of living organisms, heredity, and the genetic control of cellular processes, evolution, and ecology. The laboratory portion of the course (Biology 3B) emphasizes the diversity of living organisms. Laboratory topics include an introduction to the microscope, study of the cell, a survey of the microorganisms, plants, and animals that comprise the kingdoms of life, and the anatomic study of the earthworm, grasshopper, and fetal pig. Note: 3A and 3B must be taken concurrently. Biology 3A and 3B do not transfer separately. UC Transfer Credit Limit: No credit will be given for Biology 3A or 3B if taken after Biology 6 or 7.

### 3A Introduction to Biology - Lecture (3) UC:CSU

### 3B Introduction to Biology - Laboratory (1) UC:CSU

### 6 General Biology I (5) UC:CSU

*Prerequisite: Biology 3A&B, Chemistry 101 & Math 125*  
The principles of molecular biology, cell structure and function, genetics, evolution and organization at the tissue level in plants and animals are studied. Biology 6 and 7 satisfy requirements of lower division zoology and botany for biological science majors, pre-medical, pre-dental and pre-pharmacy majors. Note: Many four-year institutions recommend the completion of both Biology 6 and 7 as a core program. UC Transfer Credit.

Limit: No credit will be given for Biology 3A or 3B if taken after Biology 6 or 7.

### 7 General Biology II (5) UC:CSU

*Prerequisite: Biology 3A&B, Chemistry 101 & Math 125*  
This course covers the principles of organ and organ system physiology in plants and animals, ecology and the course of evolution. A survey of the various plant and animal groups is included. Note: Many four-year institutions recommend the completion of both Biology 6 and 7 as a core program.

## COURSE DESCRIPTION

UC Transfer Credit Limit: No credit will be given for Biology 3A or 3B if taken after Biology 6 or 7.

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### BROADCASTING

#### 17 Industrial and Commercial Voice-over Techniques (3)

*Corequisite: Music 265*

Development of the ability to narrate, dub and loop films, audio cassettes and video-taped materials for use in: industrial information units, the entertainment media, educational packages, and commercial advertising. Includes the development and use of some world dialects and an in-depth study of microphone techniques.

#### 25 Radio/TV/Film Writing (3) CSU

This course presents an analysis of the form and style of radio, television, and film script formats, and the preparation of scripts for radio, television, and film.

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### BUSINESS

Also see: Accounting, Finance, Law, Management, Marketing, and Real Estate.

#### 1 Introduction to Business (3) UC:CSU

This course is a survey of the fundamental aspects of all phases of business including entrepreneurship alternatives, management/ leadership, marketing, financial management and institutions, investing through the securities market, and challenges facing global markets. Note: Students who are Business majors, or who are considering a change to this major, are advised to take this course as a foundation. It is a survey of the fundamental aspects of all phases of business.

#### 5 Business Law I (3) UC:CSU

This course covers the essentials of the law of contracts: agency, employment, personal property, bailment, sales, and real property in their application to everyday problems pertaining to business and to the individual. Elementary safeguards regarding sales and sales contracts are covered. UC Transfer Credit Limit: A maximum of one course from Law 1 or 2 or Business 5.

#### 31 Business English (3) CSU

This course offers an intensive review of the techniques and mechanics of English: grammar, sentence structure, business vocabulary, capitalization, punctuation, various business letter styles, proofreaders' symbols, and web-site reference tools as specifically applied to the field of business. Note: Required of all Business and CAOT majors.

#### 32 Business Communications (3) CSU

This course covers the principles and techniques of effective business writing which includes the development of the ability to analyze, organize and compose various types of written and oral business communications. Emphasis is placed on writing clear, concise and persuasive letters, memos and reports, and the psychology of business letter composition and communications.

#### 38 Business Computations (3) CSU

This course provides a comprehensive study of business mathematics and reviews basic mathematics such as decimals, fractions, and percentages. It also covers the topics of bank services, payroll, the mathematics of buying and selling, interest and loans, taxes, cash and trade discounts, depreciation and other business computations. This course is intended for students interested in pursuing careers in business.

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### CHEMISTRY

#### 51 Fundamentals of Chemistry I (5) UC:CSU

*Recommended: One year of high school algebra, or Mathematics 115.*

This course is a descriptive course in inorganic and organic chemistry. Topics include the metric system of measurement; chemical symbols, formulas and nomenclature systems; chemical equations; physical properties including density, solubility and states of matter; chemical properties; acids, bases, buffers and pH; basic principles of equilibrium and an introduction to radioactivity. Organic topics focus on functional group identification including hydrocarbons, organic halides, alcohols, ketones, acids, esters, amines, carbohydrates, lipids and proteins. This course is designed for Nursing and other Allied Health majors, students in environmentally hazardous materials, elementary education or liberal arts who do not intend to take Chemistry 101.

UC Transfer Credit Limit: A maximum of one course from Chemistry 51 or 60. No credit for Chemistry 51 or 60 if taken after Chemistry 101.

#### 60 Introduction to General Chemistry (5) UC:CSU (Formerly Chemistry 10)

*Prerequisite: One year of high school algebra, or Mathematics 115.*

This basic chemistry course presents elementary principles of general chemistry, including nomenclature and problem solving. Students whose previous chemistry background is inadequate for Chemistry 101 should take this course in preparation for Chemistry 101.

Chemistry 60 is also recommended for students who have been away from high school chemistry for more than two years. UC Transfer Credit Limit: A maximum of one course