BIO 4 General Zoology
Units: 4.0 Hours: 3.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:B2, B3, IGETC:5B, 5C; GAV-GE:B2, B3; CAN:Biol4, BIOL SEQ A
The classification, ecology, evolution and systems analysis of biological functions in major taxonomic groups of animals from Protists through to Chordata. PREREQUISITE: Mathematics 233 with a grade of 'C' or better. ADVISORY: Eligible for English 250 and English 260.

BIO 5 General Botany
Units: 4.0 Hours: 3.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:B2, B3, IGETC:5B, 5C; GAV-GE:B2, B3; CAN:Biol6, BIOL SEQ A
This course is designed for students majoring in botany and/or its related disciplines. The course includes the study of the ecology, evolution, anatomy, physiology and systematics of plants as well as the use of plants in biotechnology and agriculture. PREREQUISITE: Mathematics 233 with a grade of 'C' or better. ADVISORY: Biological Science 10, eligible for English 250 and English 260.

BIO 7 Human Anatomy
Units: 4.0 Hours: 2.0 Lecture and 6.0 Laboratory
Transferable: CSU, UC; CSU-GE:B2, B3, IGETC:5B, 5C; GAV-GE:B2, B3; CAN:Biol10, BIOL SEQ B
A functional approach to the gross and microscopic structure of the major systems of the human body. Includes dissection in lab. A cadaver is observed in this course. PREREQUISITE: Biological Science 10 or Biology 15 with a grade of credit or C or better. ADVISORY: Eligible for English 250, English 260 and Mathematics 205.

BIO 8 General Microbiology
Units: 5.0 Hours: 4.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:B2, B3, IGETC:5B, 5C; GAV-GE:B2, B3; CAN:Biol14
An introduction to microbiology with an emphasis on bacteriology. Includes the study of morphology, physiology and classification of microorganisms, a survey of infectious disease, immunology and techniques for culture and control of microorganisms. This course is also listed as Allied Health 8. PREREQUISITE: Biological Science 10 or 15 with a grade of credit or C or better. ADVISORY: Chemistry 30A and Chemistry 30B; Eligible for English 250, English 260 and Mathematics 205.

BIO 9 Human Physiology
Units: 5.0 Hours: 4.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:B2, B3, IGETC:5B, 5C; GAV-GE:B2, B3; CAN:Biol12, BIOL SEQ B
A study of the functions of the major organs and organ systems of the human body, emphasizing control at the cellular level, integration of systems and homeostasis of the human body. This course is also listed as Allied Health 9. PREREQUISITE: Biological Science 7 or 15 with a grade of credit or C or better. ADVISORY: Chemistry 30A and Chemistry 30B; eligible for English 250, English 260 and Mathematics 205.

BIO 10 Principles of Biology
Units: 4.0 Hours: 3.0 Lecture and 2.0 Laboratory
Transferable: CSU, UC; CSU-GE:B2, B3, IGETC:5B, 5C; GAV-GE:B2, B3
An introductory biology course covering functions at the cellular and organismal levels. Includes study of the basic principles of metabolism, heredity, evolution and ecology. Primarily for non-biological science majors. ADVISORY: Eligible for English 250, English 260 and Mathematics 205.

BIO 11 Nutrition
Units: 3.0 Hours: 3.0 Lecture
Transferable: CSU, UC; CSU-GE:E2; GAV-GE:E2, F; CAN:FCS2
This course is designed to meet the needs of the Allied Health student and the general education student alike. The major aim of this course is to help the student acquire relevant information about nutrition which they can use professionally and/or personally. The course will cover the practical aspects of normal nutrition, ways to promote sound eating habits throughout the life cycle, and physiological contribution nutrients make to body structure and function. This course is also listed as Allied Health 11. PREREQUISITE: Eligible for English 250 and English 260 ADVISORY: Chemistry 30A and Mathematics 205

BIO 12 Introduction to Human Biology
Units: 4.0 Hours: 3.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:B2, B3, IGETC:5B, 5C; GAV-GE:B2, B3
This course will provide an introduction to human biology for non-science majors to meet general education laboratory science requirements. It will cover the biologic principles of basic body structure and function including all systems of the body, genetic diseases, and biotechnology. This course satisfies the same general education life science requirements as Biology 10 and Ecology 1.

BIO 13 Marine Biology
Units: 4.0 Hours: 3.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:B2, B3, IGETC:5B, 5C; GAV-GE:B2, B3
The course provides a comprehensive overview of marine ecosystems, emphasizing the diversity of life inhabiting them. The physical, chemical and ecological features of the marine environment are reviewed and the evolutionary adaptations that allowed marine organisms to survive are emphasized. Although the overall focus will include ecosystems found in both tropical, subtidal, temperate and arctic regions, many of the practical examples will be drawn from the rich ecosystems of the central California coast and labs will provide hands-on experience of the diversity of life forms found in this area. Practical exercises will include viewing of specimen in the laboratory, short documentaries followed by discussion and field trips to coastal locations within the Monterey Bay and vicinity to view and explore specific ecosystems such as kelp forests, the intertidal, and estuarine areas, as well as learn about local marine species such as birds and mammals.

BIO 15 Survey of Human Anatomy and Physiology
Units: 5.0 Hours: 4.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:B2, B3, IGETC:5B, 5C; GAV-GE:B2, B3
An introductory study of the structure and function of the human body. Includes study at the cellular and organ system levels, emphasizing integration of systems. Note that a cadaver will be observed in this course. This course is also listed as Allied Health 15. ADVISORY: Biology 10 or Biology 12 with a grade of 'C' or better. Eligible for English 250, English 260 and Mathematics 205. Course will include the viewing of a cadaver.

BIO 21 Field Ecology
Units: 1.0 TO 4.0 Hours: 1.0 TO 4.0 Lecture
Transferable: CSU
Introduces concepts in ecology, plant and animal identification, natural history, and habitat assessment in a field setting. The class will have a two hour preliminary meeting to prepare for two successive meetings to local habitats. Camping is not required. Outings will be rescheduled in the case of inclement weather. This course has the option of a letter grade or pass/no pass. ADVISORY: Eligible for English 250 and Math 205.

BIOTECHNOLOGY

BIOT 103 Biotechnology Lab Skills and Instrumentation
Units: 4.0 Hours: 2.0 Lecture and 6.0 Laboratory
Transferable: CSU
Introduction to biotechnology laboratory skills. Techniques will include DNA isolation, DNA fingerprinting, cloning, restriction mapping, and Southern blotting. Includes the use and care of instruments such as centrifuges, mechanical and micropipettes, and electronic balances. Will also include keeping of a notebook, report writing, and calculations. ADVISORY: Eligible for English 250. PREREQUISITE: Completion of BIO 1 with a grade of C or better; may be taken concurrently.

BIOT 104 Seminar in Biotechnology
Units: 1.0 Hours: 1.0 Lecture
Transferable: CSU
This course will survey careers in biotechnology and ethical issues in biotechnology.

Business Accounting: see Accounting