BIO 4  General Zoology  
Units: 4.0  Hours: 3.0 Lecture  3.0 Laboratory  
Transferable: CSU, UC, CSU-GE-B2, B3, IGETC-CB, GAV-GE-B2, B3; CAN-BIO14; BIOL SEQ A  
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 15 with a grade of credit or C or better. ADVISORY: Eligible for English 250 and English 260.  

BIO 5  General Botany  
Units: 4.0  Hours: 3.0 lecture  3.0 Laboratory  
Transferable: CSU, UC, CSU-GE-B2, B3, IGETC-CB, GAV-GE-B2, B3; CAN-BIO14; 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: Biostatistics 10, eligible for English 250 and English 260.

BIO 6  Human Anatomy  
Units: 4.0  Hours: 3.0 lecture  3.0 Laboratory  
Transferable: CSU, UC, CSU-GE-B2, B3, IGETC-CB, GAV-GE-B2, B3; CAN-BIO14; BIOL SEQ A  
An introductory study of the structure and function of the human body. Includes study of the nervous, endocrine, muscular, skeletal, and integumentary systems. Includes observation of a cadaver. PREREQUISITE: Biological Science 10 or 15 with a grade of credit or C or better. ADVISORY: Eligible for English 250, English 260 and Mathematics 205.

BIO 7  General Microbiology  
Units: 5.0  Hours: 4.0 lecture  3.0 Laboratory  
Transferable: CSU, UC, CSU-GE-B2, B3, IGETC-CB, GAV-GE-B2, B3; CAN-BIO14; BIOL SEQ A  
An introduction to microbiology with an emphasis on biotechnology. 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 9. PREREQUISITE: Biological Science 10 or 15 with a grade of credit or C or better. ADVISORY: Chemistry 30A, eligible for English 250, English 260 and Mathematics 205.

BIO 8  Human Physiology  
Units: 5.0  Hours: 4.0 lecture  3.0 Laboratory  
Transferable: CSU, UC, CSU-GE-B2, B3, IGETC-CB, GAV-GE-B2, B3; CAN-BIO14; BIOL SEQ A  
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; eligible for English 250, English 260 and Mathematics 205.

BIO 9  Principles of Biology  
Units: 4.0  Hours: 3.0 lecture  2.0 Laboratory  
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 10  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 11  Marine Biology  
Units: 4.0  Hours: 3.0 Lecture  3.0 Laboratory  
An overview of the ocean as an ecosystem. This course will include segments on the ocean as a physical environment; marine ecology; marine habitats, plant and animal taxonomy. There will be an emphasis of evolutionary adaptations which organisms have for their habitat.

BIO 12  Survey of Human Anatomy and Physiology  
Units: 5.0  Hours: 4.0 lecture  3.0 Laboratory  
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: Biological Science 10, Eligible for English 250, English 260 and Mathematics 205. Course will include the viewing of a cadaver.

BIO 13  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. May be repeated twice for credit. ADVISORY: Eligible for English 250 and Math 205.

BIOTECHNOLOGY

BIOT 103  Biotechnology Lab Skills and Instrumentation  
Units: 4.0  Hours: 6.0 Laboratory  
Transferable: CSU  
Introduction to biotechnology laboratory skills. Techniques will include measuring, aseptic technique and transfer skills, preparation of buffers and other solutions, basic media preparation and dilutions, electrophoresis. Includes use and care of instruments such as microscope, spectrophotometer, centrifuge, pH meter, mechanical and micropipettes, autoclave, and electronic balance. Will also include keeping of a notebook, report writing and calculations. ADVISORY: Completion of any high school science course with a grade of 'C' or better; eligible for English 250; eligible for Math 205.

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.

BIOT 105  Advanced Biotechnology Laboratory  
Units: 4.0  Hours: 6.0 Laboratory  
Transferable: CSU  
This course is part of the Biotechnology program, and builds on skills learned in Biotechnology 103. Students will learn and apply techniques used in biotechnology research, investigation and production. This course provides hands-on experience with current techniques including DNA isolation and electrophoresis, immunological assays, PCR, cell culture, cloning and gene mapping, DNA extraction and purification, chromatography, and analysis of proteins. PREREQUISITE: BIOT 103, Biotech Lab Skills and Instrumentation.

Business Accounting: see Accounting