ATH 45  
Intercollegiate Softball  
Units: 2.5 TO 3.0  
Hours: 7.5 TO 10.0 Laboratory  
Transferable: CSU, UC, CSU-GE,E, GAV-GE,E1  
This course provides practice and competition in intercollegiate softball for women. Before participating, students must have completed a physical exam and their athletic eligibility paperwork. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 46  
Intercollegiate Volleyball  
Units: 2.5 TO 3.0  
Hours: 7.5 TO 10.0 Laboratory  
Transferable: CSU, UC, CSU-GE,E, GAV-GE,E1  
This course provides practice and competition in intercollegiate volleyball for women. Before participating, students must have completed a physical exam and their athletic eligibility paperwork. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 47  
Intercollegiate Soccer  
Units: 2.5 TO 3.0  
Hours: 7.5 TO 10.0 Laboratory  
Transferable: CSU, UC, CSU-GE,E, GAV-GE,E1  
This course provides practice and competition in intercollegiate soccer. Before participating, students must have completed a physical exam and their athletic eligibility paperwork. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 48  
Agility and Strength Development  
Units: .5 OR 1.0  
Hours: 1.5 OR 3.0 Laboratory  
Transferable: CSU, UC, CSU-GE,E, GAV-GE,E1  
This conditioning class is designed to improve and increase agility and strength development of the student-athlete through various exercises and exercise programs. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass. Previously listed as PE 46 and KIN 46.

ATH 55  
Baseball  
Units: .5 OR 1.0  
Hours: 1.5 OR 3.0 Laboratory  
Transferable: CSU, UC, CSU-GE,E, GAV-GE,E1  
This is a sport specific course designed for our student-athletes. Fundamentals, mechanics, strategy and rules of the game of baseball are included. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 75  
Sports Conditioning  
Units: .5 OR 1.0  
Hours: 1.5 OR 3.0 Laboratory  
Transferable: CSU, UC, CSU-GE,E, GAV-GE,E1  
This activity class is designed to improve the physical condition of our male and female student-athletes. It includes strength training, cardiovascular endurance, plyometric training, and sport specific techniques through an open lab format. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass. Previously listed as PE 75 and KIN 75.

ATH 77  
Football  
Units: .5 OR 1.0  
Hours: 1.5 OR 3.0 Laboratory  
Transferable: CSU, UC, CSU-GE,E, GAV-GE,E1  
This is a sport specific course designed for our student-athletes. Instruction is in the fundamentals of football. Includes skills, rules and strategy with emphasis on the application of skills and strategies in game play. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ATH 90  
Intercollegiate Sand Volleyball  
Units: 2.5 TO 3.0  
Hours: 7.5 TO 9.8 Laboratory  
Transferable: CSU, GAV-GE,E1  
This course provides practice and competition in intercollegiate sand volleyball for women. Before participating, students must have completed a physical exam and their athletic eligibility paperwork. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.
**AMT 121  Aviation Powerplant Systems Technology**  
Units: 14.0  
Hours: 9.0 Lecture and 15.0 Laboratory  
Transferable: CSU  
This course is part of the curriculum required by the Federal Aviation Administration to obtain certification as an aircraft powerplant maintenance technician. This certificate allows the rated technician to perform maintenance, preventive maintenance repairs and alterations to USA FAA certified aircraft powerplants. This section covers theory of operation, maintenance, repair, and troubleshooting procedures of powerplant systems and their relationship to the total powerplant installation package. To include lubrication, electrical systems, instrument systems, fuel metering, fire protection, starting systems, powerplant control systems, and the aerodynamics, theory and maintenance of propellers and their control systems. ADVISORY: Successful completion of AMT 100 and 101. Basic hand tools required. Details at the first class meeting.

**AMT 123  Independent Study**  
Units: 1.0 TO 2.0  
Hours:  
Transferable: CSU  
Designed to afford selected students specialized opportunities for exploring areas at the independent study level. The courses may involve extensive library work, research in the community, or special projects. May be repeated until six units of credit are accrued. This course has the option of a letter grade or pass/no pass. REQUIRED: The study outline prepared by the student and the instructor must be filed with the department and the dean.

**AMT 190  Occupational Work Experience / Aviation**  
Units: 1.0 TO 4.0  
Hours: 5.0 TO 20.0 Laboratory  
Transferable: CSU  
Occupational work experience for students who have a job related to their major. A training plan is developed cooperatively between the employer, college and student. (P/NP grading) 75 hours per semester paid work = 1 unit. 60 hours non-paid (volunteer) work per semester = 1 unit. May be taken for a maximum total of 16 units. Minimum 2.00 GPA. REQUIRED: Declared vocational major.

**BIO 5  General Botany**  
Units: 4.0  
Hours: 3.0 Lecture and 3.0 Laboratory  
General Botany is designed for students majoring in biology and/or its related disciplines. This course introduces the evolution and diversity of botanical organisms and begins with a brief review of plant like organisms (protista and fungi) and continues with an emphasis in the plant kingdom for the remainder of the course. The course will include topics such as life cycles, embryonic development, morphology, physiology, taxonomy and plant systematics. Principles of population ecology, community ecology, ecosystems interactions, biotechnology and agriculture are highlighted in this course. (C-ID: BIOL 155) PREREQUISITE: Mathematics 235 or Mathematics 240 with a grade of ‘C’ or better. ADVISORY: Chemistry 1A, Biological Science 1, and eligible for English 250 and English 260.

**BIO 7  Human Anatomy**  
Units: 4.0  
Hours: 2.0 Lecture and 6.0 Laboratory  
Structural organization of the human body: gross and microscopic structure of the integumentary, skeletal, muscular, nervous, sensory, endocrine, cardiovascular, lymphatic, respiratory, digestive, excretory, and reproductive systems. The major aim of this course is to provide the student with knowledge of normal structure and function of the human body. In addition, the major emphasis is placed on the development, morphology, physiology, anatomy and the practice of dissection in lab. A cadaver is observed in this course. PREREQUISITE: Biological Science 10 or Biology 12 with a grade of credit or C or better. (C-ID: BIOL 110B) ADVISORY: Eligible for English 250, English 260 and Mathematics 430.

**BIO 8  General Microbiology**  
Units: 5.0  
Hours: 4.0 Lecture and 3.0 Laboratory  
Study of the physiological principles, function, integration and homeostasis of the human body at the cellular, tissue, organ, organ system and organism level: integumentary system, bone, skeletal, smooth and cardiac muscles, nervous system, sensory organs, cardiovascular system, lymphatic and immune systems, respiratory system, urinary system, endocrine system, and reproduction system. Study 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  
Study of the physiological principles, function, integration and homeostasis of the human body at the cellular, tissue, organ, organ system and organism level: integumentary system, bone, skeletal, smooth and cardiac muscles, nervous system, sensory organs, cardiovascular system, lymphatic and immune systems, respiratory system, urinary system, endocrine system, and reproduction system. The course is also listed as Allied Health 9. (C-ID: BIOL 120B) PREREQUISITE: Chemistry 30A, Biological Science 7 or 15 with a grade of credit or C or Better. ADVISORY: 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  
This course is designed to meet the needs of the Allied Health student and the general education major. The major aim of this course is to provide the student with knowledge of cellular and organ level. 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:E, GAV-GE:E2, F  
This course is designed to meet the needs of the Allied Health student and the general education student. The major aim of this course is to provide the student with knowledge of cellular and organ level. Includes study of the basic principles of 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 the physiological contribution nutrients make to body structure and function. This course is also listed as AH 11. PREREQUISITE: Eligible for English 1A. ADVISORY: Chemistry 30A and Mathematics 205.