

ANTH 9 Cultural Context of Child and Family in a Diverse Society

Units: 3.0 **Hours:** 3.0 Lecture
Transferable: CSU; CSU-GE:D7; GAV-GE:D2, F

Examines cultural influences on child-rearing practices, family values, and human development. Perspectives from social sciences are used to critique and review theoretical and practical implications of oppression and privilege as they apply to families, schools, and communities, including historical and socio-cultural factors. The processes of socialization and identity development, and the importance of respectful, reciprocal relationships that support and empower families. Self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling. Also listed as CD 7 and PSYC 7. **ADVISORY:** Eligible for English 250 and English 260.

ART**ART 1A Art History**

Units: 3.0 **Hours:** 3.0 Lecture
Transferable: CSU, UC; CSU-GE:C1, IGETC:3A; GAV-GE:C1, F; CAN:ART2, ART SEQ A

A critical survey of the influences and development of painting, architecture, sculpture, and minor arts from pre-history to the Byzantine/Romanesque eras, including the art of primitive people. **ADVISORY:** Eligible for English 250 and English 260.

ART 1B Art History

Units: 3.0 **Hours:** 3.0 Lecture
Transferable: CSU, UC; CSU-GE:C1, IGETC:3A; GAV-GE:C1; CAN:ART4, ART SEQ A

The history of western painting, sculpture, architecture and minor arts from the Romanesque, the Gothic and Renaissance eras to the present. **ADVISORY:** Eligible for English 250 and English 260.

ART 2A Two-Dimensional Design

Units: 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory
Transferable: CSU, UC; CSU-GE:C1; GAV-GE:C1; CAN:ART14

An introduction to the basic elements and principles of two-dimensional design. Lettering and graphics applications of design are included. Traditional and experimental materials and techniques are applied to a variety of individual projects and exercises.

ART 3A Drawing and Composition

Units: 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory
Transferable: CSU, UC; CSU-GE:C1; GAV-GE:C1; CAN:ART8

A course that can teach you how to draw. Students learn basic drawing skills through the exploration of a variety of drawing materials such as pencil, inks, charcoal and pastels; processes include doodling, gesture and schematic drawing.

ART 3B Drawing and Composition

Units: 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory
Transferable: CSU, UC; GAV-GE:C1

Drawing in pencil, ink, pastels and variety of experimental materials and processes. Cultural awareness and historical foundations are integrated with classroom explorations of expressive drawing. Students develop a variety of drawing approaches and a greater understanding of personal expression. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. **ADVISORY:** Art 2A or 3A.

ART 6 Art Appreciation

Units: 3.0 **Hours:** 3.0 Lecture
Transferable: CSU, UC; CSU-GE:C1, IGETC:3A; GAV-GE:C1, F

An illustrated lecture course that surveys and introduces the visual arts from historical to contemporary times, and teaches students the basic concepts of seeing and appreciating art. **ADVISORY:** English 250 and English 260.

ART 8A Beginning Photography from Analog to Digital

Units: 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory
Transferable: CSU, UC; CSU-GE:C1; GAV-GE:C1; CAN:ART18

A beginning photography course focused on the technical and historical aspects of photography from analog to digital. This course includes the development of personal artistic expression and visual perception through the use of various photographic medium. The course will include lectures and discussions about composition and content, analog and digital camera use, lighting and exposure, various photographic processes, and photographic presentation techniques. Alternative methods, mixed media and experimental forms of photography will also be discussed. Students will be required to provide their own camera, and film.

ART 10A Cultural History of Ceramics

Units: 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory
Transferable: CSU, UC; CSU-GE:C1; GAV-GE:C1, F; CAN:ART6

An introduction to the historical developments and cultural influences of ceramic art. Development of a personal expression is realized through the combination of historical elements, observation and actual creations in clay.

ART 10B Ceramics

Units: 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory
Transferable: CSU, UC; GAV-GE:C1

Emphasis on development of wheel throwing and advanced ceramic techniques. Glaze testing, clay body development, kiln stacking and firing are introduced. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass. **ADVISORY:** Art 10A

ART 11 Creativity/Imagination and Innovation

Units: 3.0 **Hours:** 3.0 Lecture
Transferable: CSU; CSU-GE:C2; GAV-GE:C2, F

This course is designed to explore the variety of ways in which humans demonstrate their creative, imaginative and innovative abilities. This course will examine the creative process, visual literacy, the development of creative and imaginative performance and theories pertaining to insight, inspiration, intuition, originality and genius. This class draws on materials from a variety of sources including, biographies, intellectual histories, psychological studies, and educational research. Studies will include ideas and beliefs about creativity from a diverse range of disciplines and cultures. Students will be encouraged to explore and express their own creativity. **ADVISORY:** English 250 and English 260.

ART 12A Sculpture

Units: 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory
Transferable: CSU, UC; GAV-GE:C1; CAN:ART12

An introduction to expressive and technical sculptural processes of selected media such as clay, plaster and wood. May be repeated twice for credit. This course has the option of a letter grade or pass/no pass.

ART 12B Sculpture

Units: 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory
Transferable: CSU, UC; GAV-GE:C1

Continued sculptural development of form and technique using a variety of selected media such as welded and cast metal, ceramics and wood. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. **ADVISORY:** Art 12A

ART 13 Three-Dimensional Design

Units: 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory
Transferable: CSU, UC; CSU-GE:C1; GAV-GE:C1

A fundamental course focused on the technical and historical aspects of three dimensional design and sculpture. Development of personal artistic expression and visual perception through the use of various sculpting media such as plaster, paper, wood, clay, metal, etc. Introduction to the design elements and principles as they relate to space and form in visual art and design will be studied. **ADVISORY:** English 250 and English 260.

ART 14 Beginning Mural Painting**Units:** 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory**Transferable:** CSU, UC; CSU-GE:C1; GAV-GE:C1, F

Studio practice in the design, methods and materials of mural painting through the production of individual and collaborative murals. The course will also provide a historical survey of mural painting, from pre-historic cave painting to contemporary urban murals, with particular focus on the muralists of Mexico. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass.

ART 15A Beginning Painting: Form and Composition**Units:** 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory**Transferable:** CSU, UC; GAV-GE:C1

This is an introductory painting course. Students will study traditional, contemporary and experimental painting techniques using acrylics and/or oils as the primary media. Emphasis will be placed on foundational concepts and approaches including color, form and composition. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. ADVISORY: Art 2A or 3A, or portfolio review of student's work.

ART 15B Beginning Painting: Imagination and Expression**Units:** 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory**Transferable:** CSU, UC; GAV-GE:C1

This is an introductory painting course. Students will study traditional, contemporary and experimental painting techniques and media. Social, cultural and historical awareness are integrated with classroom explorations of expressive painting. Students develop a variety of painting approaches and a greater understanding of personal expression. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. ADVISORY: Art 2A or Art 3A or Portfolio Review

ART 21 Ancient Americas: A History through Art**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** Course is currently in the process of rearticulation. See online catalog for update.

A critical survey of history through the arts of pre-Columbian natives of North, Central and South America. The course will cover major societies and events from the appearance of major civilizations through the initial colonization efforts of European nations. Due to the distinct history of the Americas, this course uses the arts - architecture, sculpture, ceramics and painting, among others - of ancient societies as a primary source material. This course has the option of a letter grade or pass/no pass. This course is also listed as HIST 21. ADVISORY: Eligible for English 250.

ART 25A Art Methods**Units:** 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory**Transferable:** CSU; CSU-GE:C1; GAV-GE:C1

Art methods and learning theory for those planning to work with preschool, elementary and secondary school students. Includes art therapy as well as gifted and special learner projects. Two dimensional work in printing, drawing, collage. Also listed as CD 25A.

ART 25B Art Methods**Units:** 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory**Transferable:** CSU; GAV-GE:C1

Art methods, creativity and learning theory for those planning to work with preschool, elementary, and secondary school students. Includes art therapy as well as gifted and special learner projects. Three dimensional work in sculpture, bas relief, mobiles, paper mache', plaster, and various 3-D materials. Also listed as CD 25B.

ART 34A Life Drawing**Units:** 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory**Transferable:** CSU, UC; GAV-GE:C1; CAN:ART24

Fundamentals of anatomy and representation of the human figure. Drawing from life. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. ADVISORY: Art 3A or review of student's portfolio.

ART 34B Life Drawing**Units:** 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory**Transferable:** CSU, UC; GAV-GE:C1

Further studies of the fundamentals of anatomy and representation of the human figure. Emphasis is placed on personal expression; abstract and experimental processes. May be repeated once for credit. This course has the option of a letter grade or pass/no pass. ADVISORY: Art 34A or review of student's portfolio.

ART 40 Art Gallery Assistance**Units:** 1.0 **Hours:** 3.0 Laboratory**Transferable:** CSU; GAV-GE:C1

Individualized course in art gallery exhibition techniques and procedures. Students assist in design, installation, publicity, cataloguing and removal of exhibitions in the college gallery. May be taken until 4 units are accrued.

ART 74 Advanced PhotoShop**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU; GAV-GE:C1

This course is for the PhotoShop-experienced student and explores PhotoShop's advanced features in depth. Students work on projects, which challenge their creativity and technical ability, and will be encouraged to develop complex projects for the web and for the printed page. May be repeated three times for credit. This course has the option of a letter grade or pass/no pass. This course is also listed as CSIS 74 and DM 74. ADVISORY: CSIS 75 PhotoShop I

ART 75 Photoshop I**Units:** 3.0 **Hours:** 2.0 Lecture and 3.0 Laboratory**Transferable:** CSU; GAV-GE:C1

This course is based on the software Adobe Photoshop. Students learn to scan photographs and manipulate them using Photoshop tool box and special effects filters. They will learn to color correct photos; mask image using channels; create duotone, tritone, and quadtone images; prepare photos for use in printing and on the web. This course has the option of a letter grade or pass/no pass. May be repeated three times for credit. ADVISORY: CSIS 124 (Windows Fundamentals), CSIS 2L

ART 76 Digital Illustration**Units:** 3.0 **Hours:** 2.0 Lecture and 3.0 Laboratory**Transferable:** CSU; GAV-GE:C1

Illustration techniques using computer Bezier curve-based illustration software tools to do diagrams and graphics for use in art, desktop publishing, web graphics, multimedia, and computer presentations. This basic Illustrator course is focused on the technical and historical aspects of digital design and illustration as well as the development of personal artistic expression and visual perception through the use of the digital illustration medium. The course will include lectures and discussions about color, composition and content, computer and illustration program use, printing and presentation techniques. This course has the option of a letter grade or pass/no pass. This course is also listed as CSIS 76 and DM 76. ADVISORY: CSIS 1 or CSIS 2 or equivalent computer experience.

ART 77 Introduction to Digital Media**Units:** 3.0 **Hours:** 2.0 Lecture and 3.0 Laboratory**Transferable:** CSU, UC; GAV-GE:C1

An introduction to the field of digital media, including history, social impact, concepts, career options and industry trends. Applying learned visual and aural design principles, students will explore the use of computer-based tools in the design and production of digital media by creating and editing digital images, sounds, video, animation and text. A comprehensive term project for publication on the web or CD ROM will be required. This course is also listed as CSIS 77 and DM 77. This course has the option of a letter grade or pass/no pass. May be repeated twice for credit. ADVISORY: CSIS 124, CSIS 1, CSIS 2.2L, CSIS 3, or familiarity using the Macintosh or Windows operating systems.



ART 79 Portfolio Development

Units: 1.0 **Hours:** 1.0 Lecture
Transferable: CSU; GAV-GE:C1

The planning and production of personal portfolios and self-promotion materials, including on-line, print, slides, and e-media (CD ROM, DVD) portfolios; cover letters; and resumes. Focuses on self-promotion for jobs, self-employment, or advanced education in the fields of Art, Computer Graphic Design and Digital Media. Students will leave the class with one or more portfolios representing their work. This course has the option of a letter grade or pass/no pass. This course is also listed as CSIS 79 and DM 79.

ART 80 Digital Photography

Units: 3.0 **Hours:** 2.0 Lecture and 4.0 Laboratory
Transferable: CSU, UC; GAV-GE:C1

The study of digital photography from digital camera to the computer-based printer or digital media. Artistic, theoretical, and technical aspects will be considered. Topics include information about types and purchasing of digital cameras; theory, mechanics, and art of digital imagery; digital darkroom; eccentricities of digital photo taking; stitching photos for virtual reality; and preparing digital images for print, World Wide Web and other digital media. This course has the option of a letter grade or pass/no pass. This course is also listed as DM 80 and CSIS 80. ADVISORY: CSIS 1 or CSIS 2/2L or ART 8A or equivalent computer experience.

ART 85 Web Design I: Dreamweaver

Units: 2.0 **Hours:** 2.0 Lecture
Transferable: CSU; GAV-GE:C1

Basic and intermediate principles of designing Web pages/sites using the Dreamweaver web design software and HTML. Emphasis will be on good design and the use of tables, frames, forms, rollovers, DHTML, XHTML, behaviors, and CSS. Also includes site maintenance and the integration of multimedia components such as graphics, sound, animation, and video. This course is for the content person to design, develop, and maintain effective Web sites. This course is also listed as CSIS 85 and DM 85. This course has the option of a letter grade or pass/no pass. May be repeated twice for credit. ADVISORY: CSIS 6 or basic knowledge of HTML.

ART 98 Special Topics

Units: .5 TO 3.0 **Hours:** .5 TO 3.0 Lecture
Transferable: CSU; GAV-GE:C1

Special topics courses examine current problems or issues of interest to students within a specific discipline area. For topic content information, consult with the appropriate department chairperson. For transfer status, check with a counselor. This course may have the option of a letter grade or pass/no pass.

ART 107 Digital Media Design

Units: 2.0 **Hours:** 1.5 Lecture and 1.5 Laboratory
Transferable: CSU; GAV-GE:C1

Fundamentals of design for visual, time-based, interactive, and sound arts as applied to digital media. Includes basic storytelling, graphic design, information architecture, and human factors. Page layout, scriptwriting, storyboards, and flow charts will be used as tools applicable to the design and development of business presentations, interactive media, educational multimedia, animation, web sites, video games, and film/video. This course has the option of a letter grade or pass/no pass. Also listed as CSIS 107 and DM 107. ADVISORY: CSIS 1 or CSIS 2/2L or equivalent computer experience

ART 108 Digital Media Lab

Units: .5 TO 3.0 **Hours:** 1.5 TO 9.0 Laboratory
Transferable: CSU; GAV-GE:C1

Supervised practice and individualized computer assisted learning of software applications and techniques commonly found in the design and production of digital media (e.g., digital art and imaging, digital photography, digital print, digital audio/video, web design/authoring, DVD/CD ROMs, animation). Supplements lecture courses. Open entry/exit, so may be added at anytime during the semester. This is a pass/no pass course. May be repeated three times for credit. Also listed as DM 108 and CSIS 108. ADVISORY: CSIS 1 or CSIS 2/2L or equivalent computer experience.

ART 110 Interactive Animation: Flash

Units: 3.0 **Hours:** 2.0 Lecture and 3.0 Laboratory
Transferable: CSU; GAV-GE:C1

The production of vector graphics, animation, and interactive multimedia in Shockwave-Flash format for web pages and other digital media. Design of highly interactive web site interfaces and animated games using Flash actions (scripting). Useful for web designers/developers, animators, and multimedia authors. This course has the option of a letter grade or pass/no pass. Also listed as CSIS 110 and DM 110. May be repeated three times for credit. ADVISORY: CSIS 1, CSIS 2/2L, CSIS 124 or basic computer knowledge.

ART 113 Introduction to Digital Video

Units: 3.0 **Hours:** 2.0 Lecture and 3.0 Laboratory
Transferable: CSU; GAV-GE:C1

Introduction to the aesthetic and technical aspects of digital video recording, non-linear editing, special effect generation, and production of video (and associated audio) using the personal computer equipped with specialized software such as iMovie, Final Cut Pro, and After Effects. Also considered will be the preparation of digital video for use in interactive media such as CD, DVD, and the World Wide Web. Students will produce a final digital video project on DVD. This course has the option of a letter grade or pass/no pass. May be repeated two times for credit. Also listed as CSIS 113 and DM 113. ADVISORY: CSIS 1 or CSIS 2/2L or equivalent computer experience

ART 114 Digital Media Production

Units: 2.0 **Hours:** 2.0 Lecture
Transferable: CSU; GAV-GE:C1

A team oriented practicum that focuses on the application of learned skills to the production of digital media and digital print projects, such as web sites, CD ROM, and DVDs. Project development will be accomplished according to team derived master schedules. Lectures will be on project management, work coordination and production techniques, client-team interface, asset management and integration, budget estimate, testing, and copyright infringement. Please note that this is very much a team oriented class. This course has the option of a letter grade or pass/no pass. This course is also listed as CSIS 114 and DM 114. ADVISORY: At least one of the following: ART 75, GBUS 80, CGD 2, JOUR 18A, MUS 21, CSIS 7, CSIS 71 OR CSIS 77. or students must possess equivalent skills from any one of the following areas: digital media, computer graphics, digital print, journalism (publishing), film, TV/video, drawing or illustration, web design/development, business/marketing, or programming.

ART 117 Visual Effects-Motion Graphics

Units: 3.0 **Hours:** 2.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; GAV-GE:C1

Study of the design of visual effects and motion graphics used in digital video, film, web, multimedia, and interactive games. Includes video/graphics compositing techniques, 2D animation, basic 3D animation, and effects commonly done in digital post-production. Software such as Adobe After Effects and Apple's Motion and Shake will be used. May be repeated 3 times for credit. This course has the option of a letter grade or pass/no pass. This course is also listed as CSIS 117 and DM 117. ADVISORY: DM/ART/CSIS 113 or DM/ART/CSIS 140 or DM/ART/CSIS 77 or THEA 17A or basic knowledge of digital video/film editing.

ART 140 Basic Digital Film/Video Production

Units: 1.0 **Hours:** 1.0 Lecture
Transferable: CSU, UC; GAV-GE:C1

An on-line self-paced course covering the basics of film/video production and post production (editing) using "easy to use" computer software such as Apple's iMovie. Beneficial for students who are producing a video/film project as a requirement for another college course, extra skills development, or for self interest. Completion of the associated class or personal project in DVD format using either personal video equipment or the equipment in the Digital Media Studio is required. May be repeated twice for credit. This course has the option of a letter grade or pass/no pass. This course is also listed as DM 140 and CSIS 140.

All courses listed here are part of Gavilan College's approved curriculum.
 All courses are not offered every semester. Check the Class Schedule for current offerings.

ART 190 Occupational Work Experience/Commercial Art

Units: 1.0 TO 4.0 **Hours:** 5.0 TO 20.0 Laboratory
Transferable: CSU; GAV-GE:C1

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.

ASTRONOMY**ASTR 1 Introduction to General Astronomy**

Units: 3.0 **Hours:** 3.0 Lecture
Transferable: CSU, UC; CSU-GE:B1, IGETC:5A; GAV-GE:B1

An introduction to the realm of astronomy and space science. Topics to be covered include the historical development of astronomy, the physics of gravitation and radiation, the solar system, stellar astronomy, galactic and extragalactic astronomy, and cosmology. **ADVISORY:** Mathematics 205 and eligible for English 250 and English 260.

Athletics: see Kinesiology (KIN) or Noncredit PE

AVIATION FLIGHT TECHNOLOGY**AFT 134 Aviation Flight Technology**

Units: 3.0 **Hours:** 3.0 Lecture
Transferable: CSU

This course includes all aerodynamics, navigation, regulations, airport and airspace requirements, meteorology, and emergency procedures necessary to qualify for a private pilot certificate. **ADVISORY:** Completion of English 250 and English 260.

AVIATION MAINTENANCE TECHNOLOGY**AMT 100 General Aircraft Technology**

Units: 7.5 **Hours:** 5.0 Lecture and 7.5 Laboratory
Transferable: CSU

This course will provide the student with a thorough understanding of the use of basic hand tools and measuring devices, aircraft hardware, materials, and processes, mathematics and physical science for aircraft, aircraft weight and balance, aircraft drawing and blueprint reading. Both theory and practical application to aircraft systems is taught. **ADVISORY:** Mathematics 205

AMT 101 General Aircraft Technology

Units: 7.5 **Hours:** 5.0 Lecture and 7.5 Laboratory
Transferable: CSU

This course will provide the student with a thorough understanding of the use of maintenance publications, maintenance forms and records with emphasis on A & P Mechanic Privileges and Limitations. Basic electricity for aircraft from Ohm's Law through transistor theory will be taught as well as ground operation and servicing of aircraft. **ADVISORY:** Mathematics 205 Basic hand tools required. Details at the first class meeting.

AMT 110 Airframe Maintenance Technology

Units: 13.5 **Hours:** 9.0 Lecture and 13.5 Laboratory
Transferable: CSU

Study of aircraft aerodynamics, rigging and assembly, aircraft sheet metal structures and welding technology. Also the study of cabin atmosphere systems, fuel systems, and line maintenance, level information on aircraft instruments. Each of these areas will be accompanied with appropriate laboratory time. Basic hand tools required. Details at the first class meeting.

AMT 111 Airframe Structures

Units: 13.5 **Hours:** 9.0 Lecture and 13.5 Laboratory
Transferable: CSU

This course will cover aircraft wood, fabric covering, test and repair, aircraft inspection, painting techniques and procedures. Also the study of basic hydraulic systems of anti-skid systems, pneumatic, fixed landing and retractable landing gear systems. Basic aircraft systems familiarization along with advanced laboratory projects from topics covered in AMT 110 are a part of this course. Basic hand tools required. Details at the first meeting.

AMT 120 Aviation Powerplant 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 certificated aircraft powerplants. This Section covers the theory and practical application of operation, overhaul practices, inspection, installation, testing and troubleshooting techniques covering the subject areas of reciprocating and turbine engines, ignition, induction, supercharging, cooling and exhaust systems. **ADVISORY:** Successful completion of AMT 101 and AMT 111. Basic hand tools required. Details at the first class meeting.

AMT 121 Aviation Powerplant Systems Technology

Units: 14.0 **Hours:** 9.0 Lecture and 15.0 Laboratory
Transferable: CSU

The theory of operation, maintenance, repair, and trouble-shooting procedures of powerplant systems and their relationship to the total powerplant package. To include lubrication, electrical, instrument, fuel metering, fire protection, starting, control systems, and the aerodynamics, theory and maintenance of propellers and their control systems. **ADVISORY:** Successful completion of AMT 120. Basic hand tools required. Details at the first class meeting.

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.

Beauty School: see Cosmetology

BIOLOGICAL SCIENCE**BIO 1 General Biology**

Units: 4.0 **Hours:** 3.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:B2, B3, IGETC:5B; GAV-GE:B2, B3; CAN:BIOL2, BIOL SEQ A

A general biology course with an emphasis on the structure and function of cells, cell respiration, photosynthesis, cell cycle, Mendelian and non-classical genetics, evolution and diversity of life. The course is required for students majoring in biology and/or its subcategories (e.g., plant or animal sciences). **PREREQUISITE:** Biological Science 10 with a grade of 'C' or better and Mathematics 233 with a grade of 'C' or better. **ADVISORY:** Chemistry 30A; eligible for English 250 and English 260.

BIO 4 General Zoology

Units: 4.0 **Hours:** 3.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:B2, B3, IGETC:5B; 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.