

## ART

**ART 1A Art History****Units:** 3 **Hours:** 3 Lecture**Advisory:** Eligible for English 250 and English 260.**Transferable:** CSU; UC; CSU-GE: C1; IGETC: 3A; GAV-GE: C1; CAN: ART 2, 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.

**ART 1B Art History****Units:** 3 **Hours:** 3 Lecture**Advisory:** Eligible for English 250 and English 260.**Transferable:** CSU; UC; CSU-GE: C1; IGETC: 3A; GAV-GE: C1; CAN: ART 4, ART SEQ. A

The history of western painting, sculpture, architecture and minor arts from the Romanesque, the Gothic and Renaissance eras to the present.

**ART 2A Two-Dimensional Design****Units:** 3 **Hours:** 2 Lecture, 4 Laboratory**Transferable:** CSU; UC; CSU-GE: C1; GAV-GE: C1; CAN: ART 14

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 2B Form and Color****Units:** 3 **Hours:** 2 Lecture, 4 Laboratory**Transferable:** CSU; UC; GAV-GE: C1

An introduction to theories and applications of form and color in visual art and design. Two-dimensional and three-dimensional projects are developed in a variety of media. May be repeated once for credit. This course has the option of a letter grade or pass/no pass.

**ART 3A Drawing and Composition****Units:** 3 **Hours:** 2 Lecture, 4 Laboratory**Transferable:** CSU; UC; CSU-GE: C1; GAV-GE: C1; CAN: ART 8

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 **Hours:** 2 Lecture, 4 Laboratory**Advisory:** Art 2A or 3A.**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.

**ART 5A Printmaking****Units:** 3 **Hours:** 1 Lecture, 5 Laboratory**Transferable:** CSU; UC; GAV-GE: C1

An introduction to the history, methods and materials of printmaking. Studio practice in relief, stencil and etching processes. May be repeated once for credit. This course has the option of a letter grade or pass/no pass.

**ART 5B Printmaking****Units:** 3 **Hours:** 1 Lecture, 5 Laboratory**Advisory:** Art 5A**Transferable:** CSU; UC; GAV-GE: C1

Continued studio practice in traditional and experimental printmaking techniques, such as collagraphy, etching and serigraphy. May be repeated once for credit. This course has the option of a letter grade or pass/no pass.

**ART 6 Art Appreciation****Units:** 3 **Hours:** 3 Lecture**Advisory:** English 250 and English 260.**Transferable:** CSU; UC; CSU-GE: C1; IGETC: 3A; GAV-GE: C1

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.

**ART 8A Beginning Photography from Analog to Digital****Units:** 3 **Hours:** 2 Lecture, 4 Laboratory**Transferable:** CSU; UC; CSU-GE: C1; GAV-GE: C1; CAN: ART 18

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 8B Intermediate Black and White Photography****Units:** 3 **Hours:** 2 Lecture, 3 Laboratory**Advisory:** Art 8A**Transferable:** CSU; UC; GAV-GE: C1

An intermediate black and white photography course focused on the technical and experimental uses of photographic tools and equipment as well as the development of personal artistic expression and visual perception through the use of the photographic medium. The course will include lectures and discussions about portfolio development, alternative processes and materials, camera use, lighting and exposure, black and white film development, printing and presentation techniques. Students will be required to provide their own camera, film, and photographic paper. May be repeated once for credit. This course has the option of a letter grade or pass/no pass.

**ART 9A Beginning Color Photography****Units:** 2 **Hours:** 1 Lecture, 2 Laboratory**Advisory:** Art 8B**Transferable:** CSU; UC; GAV-GE: C1

Use of personal cameras to take color slides and/or color prints. The course will survey various color laboratory processing techniques. May be repeated once for credit. This course has the option of a letter grade or pass/no pass.

**ART 9B Intermediate Color Photography****Units:** 2 **Hours:** 1 Lecture, 2 Laboratory**Advisory:** Art 9A**Transferable:** CSU; GAV-GE: C1

Study of the effects of artificial and environmental lighting on image production and consistent quality in color exposure. Processing and print production will be produced by the students. Students will be required to supply film, color paper and chemicals, and use their own cameras. May be repeated once for credit. This course has the option of a letter grade or pass/no pass.

**ART 10A Cultural History of Ceramics****Units:** 3 **Hours:** 2 Lecture, 3 Laboratory**Transferable:** CSU; UC; CSU-GE: C1; GAV-GE: C1, F; CAN: ART 6

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 **Hours:** 1.5 Lecture, 4.5 Laboratory

**Advisory:** Art 10A

**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.

### ART 11 Creativity/Imagination and Innovation

**Units:** 3 **Hours:** 3 Lecture

**Advisory:** English 250 and English 260.

**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.

### ART 12A Sculpture

**Units:** 2 **Hours:** 1 Lecture, 3 Laboratory

**Transferable:** CSU; UC; GAV-GE: C1; CAN: ART 12

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

### ART 12B Sculpture

**Units:** 2 **Hours:** 1 Lecture, 3 Laboratory

**Advisory:** Art 12A

**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.

### ART 13 Three-Dimensional Design

**Units:** 3 **Hours:** 2 Lecture, 4 Laboratory

**Advisory:** English 250 and English 260.

**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.

### ART 14 Beginning Mural Painting

**Units:** 3 **Hours:** 2 Lecture, 4 Laboratory

**Transferable:** CSU; UC; CSU-GE: C1; GAV-GE: C1

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 **Hours:** 2 Lecture, 4 Laboratory

**Advisory:** Art 2A or 3A, or portfolio review of student's work.

**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.

### ART 15B Beginning Painting: Imagination and

### Expression

**Units:** 3 **Hours:** 2 Lecture, 4 Laboratory

**Advisory:** Art 2A or Art 3A or Portfolio Review

**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.

### ART 16A Watercolor Painting: Form and Composition

**Units:** 3 **Hours:** 2 Lecture, 4 Laboratory

**Advisory:** Art 2A or 3A, or portfolio review of student's work.

**Transferable:** CSU; UC; GAV-GE: C1

This is an introductory painting course using watercolor and aqueous media. The student will study traditional and contemporary painting techniques. Emphasis will be placed on the development of composition and form. May be repeated once for credit. This course has the option of a letter grade or pass/no pass.

### ART 16B Watercolor Painting: Imagination and Expression

**Units:** 3 **Hours:** 2 Lecture, 4 Laboratory

**Advisory:** Art 2A or Art 3A or Portfolio Review

**Transferable:** CSU; UC; GAV-GE: C1

This is an introductory watercolor painting course. Students will study traditional, contemporary and experimental watercolor painting techniques and media. Social, cultural and historical awareness are integrated with classroom explorations of expressive painting. Students develop a variety of watercolor 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.

### ART 20 Art of Asia

**Units:** 3 **Hours:** 3 Lecture

**Advisory:** English 250 and English 260.

**Transferable:** CSU; UC; CSU-GE: C1, C2; IGETC: 3A; GAV-GE: C2, F

A general survey of arts and culture in Asia. Emphasis on painting, sculpture, ceramics and architecture of India, China and Japan. Critical analysis of artistic ideas and expressions based on cultural interactions from pre-history to present will be studied.

### ART 21 Ancient Americas: A History through Art

**Units:** 3 **Hours:** 3 Lecture

**Advisory:** Eligible for English 250.

**Transferable:** CSU; UC; CSU-GE: C1, C2; IGETC: 3A; GAV-GE: C2, F

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.

### ART 25A Art Methods

**Units:** 3 **Hours:** 2 Lecture, 4 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 **Hours:** 2 Lecture, 4 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 **Hours:** 2 Lecture, 4 Laboratory

**Advisory:** Art 3A or review of student's portfolio.

**Transferable:** CSU; UC; GAV-GE: C1; CAN: ART 24

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.

### ART 34B Life Drawing

**Units:** 3 **Hours:** 2 Lecture, 4 Laboratory

**Advisory:** Art 34A or review of student's portfolio.

**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.

### ART 40 Art Gallery Assistance

**Units:** 1 **Hours:** 3 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 45 Lettering and Typography

**Units:** 3 **Hours:** 2 Lecture, 2 Laboratory

**Advisory:** Eligible for English 250 and Mathematics 205.

**Transferable:** CSU; GAV-GE: C1

A study of the history and development of letter forms, from early manuscripts through contemporary uses in graphic design. Studio practice in calligraphy, freehand, built-up and type design and lettering techniques.

### ART 48A Computer Art I

**Units:** 3 **Hours:** 2 Lecture, 4 Laboratory

**Advisory:** Eligible for English 250 and English 260; concurrent enrollment in CSIS 1 recommended.

**Transferable:** CSU; GAV-GE: C1

A survey course focused on digital art and the technical and historical aspects of digital imaging. Students will engage in the development of personal artistic expression and visual perception in the creation of a unified body of digitally generated artwork utilizing creative digital image processing software. The course will include lectures and discussions about composition and content, computer hardware and peripheral use, digital image processing software, digital materials, input and output devices, and presentation techniques. Lectures will include the basics of animation, 3-D graphics, and web ready graphics. Also listed as Digital Media 48A.

### ART 48B Computer Art II

**Units:** 3 **Hours:** 2 Lecture, 4 Laboratory

**Advisory:** Art 48A

**Transferable:** CSU; GAV-GE: C1

Advanced digital art and the technical and historical aspects of advanced digital imaging. Students will engage in the development of personal artistic expression and visual perception in the creation of a unified body of digitally generated artwork utilizing creative digital image processing software. The course will include lectures and discussions about composition and content, computer hardware and peripheral use, digital image processing software, digital materials, input and output devices, and presentation techniques. Lectures will include advanced animation, 3-D graphics, and web ready graphics. Also Listed as Digital Media 48B.

### ART 74 Advanced Photoshop

**Units:** 3 **Hours:** 3 Lecture

**Advisory:** CSIS 75 PhotoShop I

**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.

### ART 75 PhotoShop I

**Units:** 3 **Hours:** 2 Lecture, 3 Laboratory

**Advisory:** CSIS 124 (Windows Fundamentals), CSIS 2L

**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.

### ART 76 Digital Illustration

**Units:** 3 **Hours:** 2 Lecture, 3 Laboratory

**Advisory:** CSIS 1 or CSIS 2 or equivalent computer experience.

**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.

### ART 77 Introduction to Digital Media

**Units:** 3 **Hours:** 2 Lecture, 3 Laboratory

**Advisory:** CSIS 124, CSIS 1, CSIS 2.2L, CSIS 3, or familiarity using the Macintosh or Windows operating systems.

**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.

### ART 79 Portfolio Development

**Units:** 1 **Hours:** 1 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 Digital Media, Art, and Computer Graphic Design. 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 **Hours:** 2 Lecture, 3 Laboratory

**Advisory:** CSIS 1 or CSIS 2/2L or ART 8A or equivalent computer experience.

**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.

### ART 85 Web Design I: Dreamweaver

**Units:** 2 **Hours:** 2 Lecture

**Advisory:** CSIS 6 or basic knowledge of HTML.

**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.

### ART 107 Digital Media Design

**Units:** 2 **Hours:** 1.5 Lecture, 1.5 Laboratory

**Advisory:** CSIS 1 or CSIS 2/2L or equivalent computer experience

**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.

### ART 108 Digital Media Lab

**Units:** .5-3 **Hours:** 9 Laboratory

**Advisory:** CSIS 1 or CSIS 2/2L or equivalent computer experience.

**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.

### ART 110 Interactive Animation: Flash

**Units:** 3 **Hours:** 2 Lecture, 3 Laboratory

**Advisory:** CSIS 1, CSIS 2/2L, CSIS 124 or basic computer knowledge.

**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.

### ART 113 Introduction to Digital Video

**Units:** 3 **Hours:** 2 Lecture, 3 Laboratory

**Advisory:** CSIS 1 or CSIS 2/2L or equivalent computer experience

**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.

### ART 114 Digital Media Production

**Units:** 2 **Hours:** 2 Lecture

**Advisory:** At least one of the following: ART 75, BUS 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.

**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.

### ART 116 DVD Authoring

**Units:** 2 **Hours:** 1.5 Lecture, 1.5 Laboratory

**Advisory:** CSIS 1 or CSIS 2/2L or equivalent computer experience

**Transferable:** CSU; GAV-GE: C1

Study of the artistic and technical aspects of authoring interactive DVDs (Digital Video/Versatile Disk). Special attention will be given to interactive design and the integration and conversion (encoding) of time-based media (e.g., multi-angle video, animation, Dolby sound) special to this media format. Students will be able to produce their own DVD of video, slide shows, and/or interactive games. This course has the option of a letter grade or pass/no pass. May be repeated two times for credit. Also listed as CSIS 116 and DM 116.

### ART 117 Motion Graphics/Special Effects

**Units:** 3 **Hours:** 2 Lecture, 3 Laboratory

**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.

**Transferable:** CSU; UC; GAV-GE: C1

Study of the design of motion graphics and special effects used in digital video and film, web, multimedia, and interactive games. Includes video/graphics compositing techniques, 2D animation, basic 3D animation, and special effects commonly generated in digital post-production. Software such as Adobe After Effects or Apple's Motion will be used. May be repeated for credit. This course has the option of a letter grade or credit/non-credit. This course is also listed as CSIS 117 and DM 117.

### ART 140 Basic Digital Film/Video Production

**Units:** 1 **Hours:** 1 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:** 1-4 **Hours:** 20 Laboratory**Required:** Enrollment in a minimum of seven (7) units, including Cooperative Work Experience, during regular semesters; enrollment in at least one other class in summer session.**Transferable:** GAV-GE: C1

The application of learned theory, knowledge, and skills to a practical job setting related to the student's educational/occupational goal. Employment must be directly related to the student's college educational/occupational goal. Periodic interviews of the students and employers or their representatives will be required. Each student shall be assisted in the development of individualized performance objectives, toward which the learning experience shall be directed.

**ASTRONOMY****ASTR 1 Introduction to General Astronomy****Units:** 3 **Hours:** 3 Lecture**Advisory:** Mathematics 205 and eligible for English 250 and English 260.**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.

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**Athletics: see Physical Education (PE)**

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**AVIATION FLIGHT TECHNOLOGY****AFT 121 Aviation Fundamentals****Units:** 3 **Hours:** 3 Lecture**Advisory:** Eligible for English 250, English 260 and Mathematics 205.**Transferable:** CSU

Principles of aerodynamics and flight, radio communications, aircraft engines and systems and aircraft performance characteristics including federal aviation regulations and air navigation. Students who satisfactorily complete the course will be eligible to take the Federal Aviation Administration Private Pilot Airplane written test.

**AFT 122 Instrument Flight Technology****Units:** 3 **Hours:** 3 Lecture**Advisory:** AFT 121 or 131, or have passed the FAA Private Pilot written exam**Transferable:** CSU

Flight instrument usage, regulations, meteorology, chart reading and flight planning to prepare the student to begin flight training in flight solely by reference to flight instruments.

**AFT 133 Commercial Flight Operations****Units:** 3 **Hours:** 3 Lecture**Advisory:** Hold private pilot certificate or AFT 121 with a grade of "C" or better. Eligible for English 250 and 260.**Transferable:** CSU

Air traffic control procedures, meteorology, regulations, aircraft performance, and aerodynamics for students preparing for their Federal Aviation Administration (FAA) commercial pilot's license.

**AFT 134 Aviation Flight Technology****Units:** 3 **Hours:** 3 Lecture**Advisory:** Completion of English 250 and English 260.**Transferable:** No

This course includes all aerodynamics, navigation, regulations, airport and airspace requirements, meteorology, and emergency procedures necessary to qualify for a private pilot certificate.

**AVIATION MAINTENANCE TECHNOLOGY****AMT 100 General Aircraft Technology****Units:** 7.5 **Hours:** 5 Lecture, 7.5 Laboratory**Advisory:** Mathematics 205**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.

**AMT 101 General Aircraft Technology****Units:** 7.5 **Hours:** 5 Lecture, 7.5 Laboratory**Advisory:** Mathematics 205**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.

**AMT 110 Airframe Maintenance Technology****Units:** 13.5 **Hours:** 9 Lecture, 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.

**AMT 111 Airframe Structures****Units:** 13.5 **Hours:** 9 Lecture, 13.5 Laboratory**Transferable:** CSU

Aircraft wood, fiberglass construction, fabric covering, testing 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.

**AMT 120 Aviation Powerplant Technology****Units:** 14 **Hours:** 9 Lecture, 15 Laboratory**Advisory:** Successful completion of AMT 101 and AMT 111.**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.

**AMT 121 Aviation Powerplant Systems Technology****Units:** 14 **Hours:** 9 Lecture, 15 Laboratory**Advisory:** Successful completion of AMT 120.**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.