

E S 85B Environmental Studies Area Docent 2 Units
Advisory: Environmental Studies 85A; English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.
One hour lecture, three hours laboratory, one additional hour to be arranged in the Kirsch Center Resource Center or the Cheeseman Environmental Study Area.

Interpretive techniques of environmental education utilizing the Environmental Studies Area outdoor lab. Students will refine the techniques required for leading tours and interpreting California native plant and animal communities in the Environmental Studies Area, as well as in any other outdoor setting. In this course students will lead tours through the Environmental Study Area. Teaching students strategies for teaching environmental education to various cultural, ethnic, and gender groups will also be explored.

E S 86 Tropical Field Studies 4 Units
Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.
Three hours lecture, three hours laboratory (field trip required).

Field observation of the native flora and fauna found in aquatic terrestrial ecosystems of tropical regions of the Americas with an emphasis on endangered, rare, protected and reintroduced species. Social, economic and political issues associated with habitat and species loss as well as the impacts on all cultural, ethnic and gender groups will be explored.

E S 90 Environmental Research Methods 4 Units
Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.
Four hours lecture, one additional hour to be arranged in the Kirsch Center Resource Center or the Cheeseman Environmental Study Area.

Designed to expose students to various methods available to conduct research on environmental topics. Application of various legal and policy research principles, including review of agency files, preparation of press releases, reports on timely environmental issues, persuasive oral advocacy of topic and case law research. Impacts on cultural, ethnic, and gender groups will be discussed.

E S 95 Introduction to Environmental Careers/Internships 1 Unit

Advisory: English Writing 200 and Reading 201 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
One hour lecture.

Introduction to career options and two-year and four-year programs in the field of environmental studies including energy management technology, conservation biology, environmental education, ecological restoration, watershed management, environmental law, and other related careers. The benefits of environmental studies to society will also be discussed. Opportunities for internships in business, industry, public agencies, academia, and nonprofit organizations will be explored. Students will prepare a study plan for their degree, certificate or transfer track Environmental Studies academic plan.

E S 95A Environmental Studies Internship 1 Unit
E S 95B 2 Units
E S 95C 3 Units
E S 95D 4 Units

Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.
One hour lecture for each unit of credit.

A work experience internship seminar which may be taken concurrently with Cooperative Education 50. The seminar will prepare student interns for internships in business, industry or government related to the student's field of study. The internship must occur during the last quarter of study prior to completion of a degree or certificate program.

E S 100X Environmental Education 2 Units
E S 100Z 4 Units

(Environmental Studies 100X was formerly Environmental Studies 100.)

Credit course - Does not apply to De Anza Associate degree.

Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.

One hour lecture for each unit of credit (field trips may be required).

Environmental education for K-12 educators emphasizing environmental and ecological concepts, Project Learning Tree, Project WET and Project WILD K-12 environmental curricula, interpretative techniques, development of classroom lesson plans and a review of field trip sites and other resources available to teachers. This course will utilize the Environmental Studies Area and other field trip sites. Teaching environmental curricula to various cultural, ethnic, and gender groups will be discussed.

Film and Television Production

F/TV 1 Introduction to Film 4 Units
 (Formerly Film Analysis 39.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.

(Also listed as English Literature 1. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

An introduction to the international art of cinema through the techniques and procedures of film making, including screen writing, cinematography, directing, editing, and sound; through the formal properties of film, such as mise-en-scene, structure, and style; through the relationships between film and society, and through the critical analysis of works of film art.

F/TV 2A History of Cinema (1895-1950) 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.

Four hours lecture.

A survey of the international development of the motion picture to 1950 as a distinct form of artistic expression, through classic films, notable artists, and key events; an investigation of the aesthetic, technological, economic, and social factors that contributed to the evolution of film; an examination of the value systems reflected in and shaped by these works from diverse cultures.

F/TV 2B History of Cinema (1950-Present) 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.

Four hours lecture.

A survey of the international development of the motion picture since 1950 as a distinct form of artistic expression, through classic films, notable artists, and key events; an investigation of the aesthetic, technological, economic, and social factors that contributed to the evolution of film; an examination of the value systems reflected in and shaped by these works from diverse cultures.

F/TV 10 Introduction to Electronic Media 4 Units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as Humanities 17. Student may enroll in either department, but not both, for credit.)

Four hours lecture, one additional hour to be arranged.

A survey course of the history, aesthetics, technology and social impacts of electronic media, including film, broadcasting and the Internet. Explores the role of government, advertising, audiences, and emerging technologies, their futures and impacts on global societies.

F/TV 20 Basic Digital Film/Video Production 4 Units

(Formerly Film/Television 51A).

Corequisite: Film/Television 20 students must also enroll in Film/Television 54, 54X, 54Y, or 54Z.

Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.

Three hours lecture, three hours laboratory.

Digital video production, film-style production techniques including mini-DV, half-inch and 8mm formats: camera operation and procedures, basic principles and techniques of sound and scriptwriting; and nonlinear editing.

F/TV 22 16 MM Film Production I 4 Units

(Formerly Film/Television 52A.)

Prerequisite: Film/Television 20.

Corequisite: Film/Television 22 students must also enroll in Film/Television 54, 54X, 54Y, or 54Z.

Advisory: English Writing 1A or English as a Second Language 5.

Three hours lecture, three hours laboratory.

Logistics, scriptwriting, sound recording, film and sound editing. Methods by which visual and aural elements of a motion picture may be organized. The study and analysis of exemplary motion pictures as well as of the student's own work.

F/TV 41 Film Genres 4 Units

(Formerly Film Analysis 41.)

Advisory: English Writing 1A or English as a Second Language 5.

(Also listed as English Literature 3. Student may enroll in either department, but not both, for credit.)

Four hours lecture.

(Any combination of Film/Television 41 and English Literature 3 may be taken up to three times for credit as long as the topic matter is different each time.)

Analysis of specific film genres such as action-adventure, comedy, film noir, gangster, horror, musical, science fiction, thriller, war film or western within global, historical, social, cultural, industrial and aesthetic contexts. The genre studied changes each quarter (see subtitle in quarterly class schedule).

<p>F/TV 42 National Cinemas 4 Units (Formerly Film Analysis 42.) <i>Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.</i> (Also listed as <i>English Literature 4</i>. Student may enroll in either department, but not both, for credit.) Four hours lecture. (Any combination of Film/Television 42 and <i>English Literature 4</i> may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.) Analysis of major national film developments such as: German Expressionism, Soviet Film of the 1920's, Italian Neo-Realism, New American Cinema of the 1960's/1970's, or New Chinese Cinema. The national cinema studies changes each quarter.</p>	<p>F/TV 52B 16 MM Film Production III 4 Units (Formerly Film/Television 52C.) <i>Prerequisite: Film/Television 22 and 52A.</i> <i>Corequisite: Film/Television 52B students must also enroll in Film/Television 54, 54X, 54Y, or 54Z.</i> Three hours lecture, three hours laboratory. (Any combination of Film/Television 52A and 52B may be taken up to six times, not to exceed 18 units for the family of courses.) Advanced production and post-production techniques, including sync-sound production and editing, music editing, preparing for the sound mix and A - B rolling. Emphasis on individual projects.</p>
<p>F/TV 43 Film Artists 4 Units (Formerly Film Analysis 43.) <i>Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.</i> (Also listed as <i>English Literature 5</i>. Student may enroll in either department, but not both, for credit.) Four hours lecture. (Any combination of Film/Television 43 and <i>English Literature 5</i> may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.) Analysis of the works of specific film artists, such as Alfred Hitchcock or Orson Welles; or analysis of the works of a specific film craft, such as cinematography or editing. The topic studied changes each quarter (see subtitle in class schedule).</p>	<p>F/TV 53 Non-linear Editing 4 Units <i>Prerequisite: Film/Television 20.</i> <i>Corequisite: Film/Television 53 students must also enroll in Film/Television 54, 54X, or 54Y.</i> Three hours lecture, three hours laboratory. Concepts and techniques of non-linear digital film and video editing, including organization of the editing process, working the timeline and audio editing, with emphasis on the principles and aesthetics of film and video editing.</p>
<p>F/TV 45 History of Experimental Film/Video 4 Units (Formerly Film/Television 78.) <i>Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.</i> Four hours lecture. History and development of experimental film/video; origins in European experimental cinema, American underground film, avant-garde painting, sculpture, music and theater. Evolution of experimental video and electronic developments.</p>	<p>F/TV 54 Film/Television Production Laboratory 1/2 Unit F/TV 54X 1 Unit F/TV 54Y 2 Units F/TV 54Z 3 Units <i>Corequisite: Film/Television 54 students must also enroll in a Film/Television production course.</i> Three hours laboratory for each unit of credit. (Any combination of Film/Television 54, 54X, 54Y, and 54Z may be taken up to six times, not to exceed 18 units for the family of courses.) Supervised use of film and television laboratory equipment and facilities to fulfill assigned projects in other film and television production courses.</p>
<p>F/TV 48 Cinema and the African American (An Historical Analysis of African Americans in American Cinema) 4 Units (Formerly Film Analysis 48.) (See general education pages for the requirement this course meets.) <i>Advisory: English Writing 1A or English as a Second Language 5.</i> (Also listed as <i>Intercultural Studies 14 and English Literature 6</i>. Student may enroll in only one department, for credit.) Four hours lecture, one additional hour to be arranged. A survey of the image and role of the American film industry in the United States. Particular attention will be given to the development of images of racial stereotypes, those works attempting an historical portrayal of the African American experience and the roles played by key African Americans in the evolution of film as an art and North American feature films as an industry.</p>	<p>F/TV 55A Video Studio Production 4 Units <i>Advisory: English Writing 1A or English as a Second Language 5.</i> Three hours lecture, three hours laboratory. An introduction to multi-camera television studio production, the basic procedures and techniques, with emphasis on camera, audio, graphics, scripting, directing and producing.</p>
<p>F/TV 50 Introduction to Film/ Television Directing 4 Units <i>Prerequisite: Film/Television 20.</i> <i>Corequisite: Film/Television 50 students must also enroll in Film/Television 54, 54X, 54Y, or 54Z.</i> Three hours lecture, three hours laboratory. (May be taken twice for credit.) Development and execution of short, single-camera-style projects focusing on the skills of directing and editing.</p>	<p>F/TV 56 Experimental Film/Video Workshop 4 Units <i>Prerequisite: Film/Television 20 or consent of instructor.</i> <i>Corequisite: Film/Television 54, 54X, 54Y or 54Z.</i> <i>Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.</i> Three hours lecture, three hours laboratory. (Repeatable six times, not to exceed 18 units.) Concepts, principles and techniques related to the production of an experimental film or video. Examination of the historical roots of experimental film and video. Emphasis on experimentation in the production of a film or video work.</p>
<p>F/TV 51A Intermediate Digital Film and Video Production 4 Units (Formerly Film/Television 55B.) <i>Prerequisite: Film/Television 20 or 55A.</i> <i>Corequisite: Film/Television 51A students must also enroll in Film/Television 54, 54X, 54Y, or 54Z.</i> <i>Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.</i> Three hours lecture, three hours laboratory. (May be taken twice for credit.) Principles of digital video in the production of a short project using camcorders, lighting and sound equipment and post production digital editing.</p>	<p>F/TV 57A Nonfiction Workshop I: The Documentary 4 Units (Formerly Film/Television 57.) <i>Prerequisite: Film/Television 20.</i> <i>Co-requisite: Film/Television 57A students must also enroll in Film/Television 54, 54X, 54Y, or 54Z.</i> Three hours lecture, three hours laboratory. (May be taken twice for credit.) Nonfiction concepts, principles and techniques as related to the production of a documentary video. Examination of the historical roots in nonfiction film and television. Emphasis on extensive production work in documentary programs.</p>
<p>F/TV 52A 16 MM Film Production II 4 Units (Formerly Film/Television 52B.) <i>Prerequisite: Film/Television 22.</i> <i>Corequisite: Film/Television 52A students must also enroll in Film/Television 54, 54X, 54Y, or 54Z.</i> Three hours lecture, three hours laboratory. (Any combination of Film/Television 52A and 52B may be taken up to six times, not to exceed 18 units for the family of courses.) Advanced sound film editing, laboratory procedures, interior and exterior lighting techniques, color cinematography. Emphasis on individual student projects.</p>	<p>F/TV 57B Nonfiction Workshop II: The Documentary 4 Units <i>Prerequisite: Film/Television 57A.</i> <i>Co-requisite: Film/Television 57B students must also enroll in Film/Television 54, 54X, 54Y, or 54Z.</i> Three hours lecture, three hours laboratory. (May be taken twice for credit.) Advanced techniques in nonfiction film and television, including cinematography, sound, lighting, post-production editing, and directing. Analysis of the modern film and television documentary. Emphasis on production of a documentary video.</p>

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F/TV 58R F/TV 58S F/TV 58T F/TV 58U F/TV 58V F/TV 58W F/TV 58X F/TV 58Y F/TV 58Z	Film/Television Production Workshop	1/2 Unit 1 Unit 2 Units 3 Units 4 Units 5 Units 6 Units 7 Units 8 Units	F/TV 65 Current Practices in the Film/Video Profession	4 Units
<i>Prerequisite: Film/Television 20.</i>			<i>Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.</i>	
<i>Two hours lecture-laboratory for each unit of credit.</i>			<i>Four hours lecture.</i>	
<i>(Any combination of Film/Television 58R-Z may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)</i>			Current creative, technical, economic, and employment conditions in film and video as seen by working professionals.	
<i>A workshop in film or video production in which the student works independently or with a crew to produce a film or video to refine skills in cameras, lighting, directing, post-production, and other related skills. The number of units is dependent on the production.</i>			F/TV 66A Basic Techniques of Animation: 3D Media	3 Units
F/TV 59	Role of the Media Producer	4 Units	<i>(Formerly Film/Television 66.)</i>	
<i>Advisory: Film/Television 20 or 55A; English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173; Mathematics 200 or 210.</i>			<i>Two hours lecture, two hours lecture-laboratory.</i>	
<i>Four hours lecture.</i>			An exploration of the techniques of three-dimensional stop-motion and non-cel animation, as applied to a variety of art media (puppet, clay, pixillation, shadow puppets and other under-camera art media). Principles of movement and timing, lighting and cinematography, and multiplane dimensionality, with application to both computer and traditional drawn animation.	
Roles and responsibilities of the media producer. Skills and knowledge required in developing a production proposal; including development, audience analysis, location scouting, production schedule, and budgeting.			F/TV 67G Drawing for Animation: Human Figure	3 Units
F/TV 60A	Scriptwriting for Film and Video I	4 Units	<i>Prerequisite: Film/Television 69 (may be taken concurrently).</i>	
<i>Advisory: English Writing 1A or English as a Second Language 5.</i>			<i>Two hours lecture, three hours laboratory.</i>	
<i>Four hours lecture.</i>			Life drawing workshop, designed specifically for animators for study of staging, posing, movement, drapery and character design. Exercises include quick gesture drawings, silhouette form composition, constructive drawings techniques, multiple-pose memory sketches and analysis of action to determine key and breakdown drawings. Emphasis on rendering anatomical details of heads and hands and on keeping character volume consistent when drawn from a variety of angles.	
Introduction to scriptwriting for film and video; the role of the script in media production; format and structure in the script; the basic skills of scriptwriting for fiction and nonfiction.			F/TV 67H Drawing for Animation: Animal Expression	3 Units
F/TV 60B	Scriptwriting for Film and Video II	4 Units	<i>Prerequisite: Film/Television 69 (may be taken concurrently).</i>	
<i>Prerequisite: Film/Television 60A.</i>			<i>Two hours lecture, three hours laboratory.</i>	
<i>Advisory: English Writing 1A or English as a Second Language 5.</i>			Drawing workshop, designed specifically for animators and focusing on animals, birds, insects and objects as anthropomorphic characters. Exercises include quick gesture drawings, silhouette form composition, constructive drawing technique and fast-pose memory sketches from live models and reference film. Design and construction of model sheets for both realistic and stylized characters. Analysis of comparative anatomy and locomotion.	
<i>Four hours lecture.</i>			F/TV 67I Drawing for Animation: Layout and Visual Development	3 Units
Intermediate course in scriptwriting for fiction and nonfiction film and video projects; examination of structure and characterization in dramatic narrative; consideration of approach and structure in nonfiction; emphasis on development and revision of script projects.			<i>Prerequisite: Film/Television 70.</i>	
F/TV 60C	Scriptwriting for Film and Video III	4 Units	<i>Two hours lecture, three hours laboratory.</i>	
<i>Prerequisite: Film/Television 60B.</i>			Drawing and art direction workshop for animators, concentrating on expanding storyboards into full layouts. Development of visual style for an animated film production. Design of props and backgrounds, utilizing one-point, two-point and three-point perspective, and including simulation of elaborate camera movements. Drawn representation of telephoto or wide-angle lens perspective and depth of field.	
<i>Advisory: English Writing 1A or English as a Second Language 5.</i>			F/TV 68 Sound for Animation	3 Units
<i>Four hours lecture, one additional hour to be arranged.</i>			<i>Two hours lecture, two hours lecture-laboratory.</i>	
Advanced course in scriptwriting for fiction and non-fiction film and video projects; examination of classical and experimental structures in fiction and non-fiction; further practice in the development and revision of script projects.			Principles of soundtrack design to accompany the unique properties of the animated image. Aesthetics and techniques of film music. Recording, editing and mixing of voice, music and sound effects using location, studio and library sources. Methods of lip-synched character dialogue, musical synchronization to animation, and sound effects ambiances.	
F/TV 61	TV Scriptwriting for Training and Communications	4 Units	F/TV 69 Principles of Animation: Character and Motion	3 Units
<i>Prerequisite: Film/Television 60A.</i>			<i>Two hours lecture, two hours lecture-laboratory.</i>	
<i>Advisory: English Writing 1A or English as a Second Language 5.</i>			Investigation of the fundamental principles of movement and timing when animating characters or objects, progressing from simple to complex motion. Experience in creating character weight, power and emotion; portraying the forces of nature in "effects" animation and manipulating the quality of the line and the image. Close analysis of the animation technique in exemplary professional films.	
<i>Four hours lecture, one additional hour to be arranged.</i>			F/TV 70G Screenwriting for Animation	4 Units
Scriptwriting for business and institutional film and video; structure, format, and elements of programs for information, training, marketing, and corporate communication.			<i>Advisory: Film/Television 66 and/or 69; English Writing 1A or English as a Second Language 5.</i>	
F/TV 62	Lighting for Television and Film	4 Units	<i>Four hours lecture.</i>	
<i>Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173; Mathematics 101 or 112.</i>			Concept development and scripting for the animated film: dramatic, comic, documentary and experimental. Exercises in story structure, character building, dialogue and visualization for short personal films. Comparison of screenplay formats for television and feature films with the story/sketch method unique to animation.	
<i>Three hours lecture, three hours laboratory.</i>			F/TV 70H The Animation Storyboard	3 Units
Introduction to the basic principles of studio and location lighting for film, television, animated, and com posited production. Focus on evaluation of the aesthetic styles and techniques of media lighting in professional production. An analysis and application of basic electricity, lighting instruments, dimming equipment, light color, media, and gaffer equipment. Practical experience in film and television productions.			<i>(Formerly Film/Television 70.)</i>	
F/TV 63A	Studio and Remote Audio Production	4 Units	<i>Advisory: Film/Television 66 and/or 69.</i>	
<i>Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173; Mathematics 101 or 112.</i>			<i>Two hours lecture, two hours lecture-laboratory.</i>	
<i>Three hours lecture, three hours laboratory.</i>			<i>(May be taken twice for credit.)</i>	
Study of the art and techniques of radio, television, film and media audio recording. Emphasis on preproduction and production in studio and on location. Examines the aesthetics of design and sound mixing, the technologies of analog and digital audio, and manipulation of sound in the aural and recorded environment. Practical experience in media production.			Methods of planning and designing animated films using the storyboard technique. Focus on translating concepts into visuals, selecting camera angles and choosing editing style. Exploration of animation's unique cinematic vocabulary and its potential for personal expression, social advocacy and/or literary adaptation.	



F/TV 81 Seminar in Animation Production Topics 1/2 Unit
F/TV 81X 1 Unit
F/TV 81Y 2 Units
F/TV 81Z 3 Units

Two hours lecture-laboratory for each unit of credit.

(Any combination of Film/Television 81, 81X, 81Y, and 81Z may be taken six times, not to exceed 18 units, as long as the topics/projects are different each time.)

Intensive workshop in a specialized area of animation production (e.g. puppet animation, gesture drawing, special visual effects, the role of the producer, advanced computer techniques).

F/TV 83A Introduction to 2D Computer Animation 3 Units
Prerequisite: Film/Television 66 or 69 (either may be taken concurrently).

Two hours lecture, three hours laboratory.

(Film/Television 83A may be repeated only if the Animation program switches to a different software. No combination of Film/Television 83A and 83B may be taken more than four times or exceed 16 units.)

Utilization of the computer in the creation of two-dimensional animation with application to educational CD-ROMs, video games, television or the Internet. Strengths and limitations compared to traditional animation techniques. Concentration on methods of creating sequences of character movement in the drawn image, timing soundtracks for synchronization, constructing storyboard reels, and adding color and texture to artwork.

F/TV 83B Advanced 2D Computer Animation 4 Units
Prerequisite: Film/Television 83A.

Three hours lecture, three hours laboratory.

(Film/Television 83B may be repeated only if the Animation program switches to a different software. No combination of Film/Television 83A and 83B may be taken more than four times or exceed 16 units.)

Deployment of computer software in the production of professional narrative drawn animation, such as feature films or television series. Emphasis on digitizing and layering imagery, designing simple and complex movements of the virtual camera, and employing digital coloring techniques in lieu of traditional cel inking and painting.

F/TV 84A Introduction to 3D Computer Animation 4 Units
Prerequisite: Film/Television 83A.

Three hours lecture, three hours laboratory.

(Film/Television 84A may be repeated only if the Animation program switches to a different software. No combination of Film/Television 84A, 84B and 84C may be taken more than six times or exceed 24 units.)

Orientation to the concepts and production process of three-dimensional (3D) computer animation. Introduction to the software interface, to basic design and construction of computer models, and to fundamentals of texturing, lighting and rendering, culminating in the creation of 3D cinematic stills.

F/TV 84B Intermediate 3D Computer Animation 4 Units
Prerequisite: Film/Television 84A.

Three hours lecture, three hours laboratory.

(Film/Television 84B may be repeated only if the Animation program switches to a different software. No combination of Film/Television 84A, 84B and 84C may be taken more than six times or exceed 24 units.)

Application of the classic principles of traditional animation regarding movement and timing to computer animation. Digital motion design in a professional software program via techniques such as keyframing, motion path animation and shape blending. Fundamentals of rigging models for expressive movement, including introduction to forward and inverse kinematics. Principles of simulated cinematography and visual aesthetics.

F/TV 84C Advanced 3D Computer Animation 4 Units
Prerequisite: Film/Television 84B.

Three hours lecture, three hours laboratory.

(Film/Television 84C may be repeated only if the Animation program switches to a different software. No combination of Film/Television 84A, 84B and 84C may be taken more than six times or exceed 24 units.)

Utilization of sophisticated professional computer programs to produce individual or collaborative animated projects with increasingly complex character models, animated movements, lighting schemes and visual effects. Exploration of advanced computer animation procedures, such as particle systems, or digital compositing, including the use of complementary software.

F/TV 85 Motion Graphics 3 Units
Prerequisite: Arts 55B.

(Also listed as Arts 85. Student may enroll in either department, but not both, for credit.)

Six hours lecture-laboratory.

The analysis and interpretation of the arts and design involved in the production of "on-the-air" graphic design. The creative integration of "type" and "image" in motion is stressed through the use of directed laboratory exercises. Software used includes Adobe Photoshop, Adobe Premier, Macromedia FreeHand, Macromedia Director, Macromedia Flash.

F/TV 92 Topics (Guest Artist/Craftsman) 1/2 Unit
One hour lecture-laboratory.

(May be taken up to six times, as long as the topics/projects are different each time.)

The investigation of techniques and procedures utilized by a guest artist for the production and development of their work. Concepts, theory and practice pertaining to the specific topic as predetermined by the guest artist.

F/TV 98G Fiction Workshop (The Writer, Producer, Director) 3 Units

Prerequisite: Film/Television 20, 50, and 60A; or Film/Television 22A or 51A.

Six hours lecture-laboratory.

(Any combination of Film/Television 98G, 98H, and 98J may be taken up to six times, not to exceed 18 units, for the family of courses.)

Advanced workshop in the writing, producing, or directing of complex scenes or multiple scene works of narrative/dramatic film or video.

F/TV 98H Fiction Workshop (Technical Crew) 3 Units
Prerequisite: Film/Television 20, 55A, 62 or 63.

Six hours lecture-laboratory.

(Any combination of Film/Television 98G, 98H, and 98J may be taken up to six times, not to exceed 18 units, for the family of courses.)

Advanced workshop in cinematography, art direction, sound recording, and other techniques and craft skills essential to the production of narrative/dramatic film and video projects.

F/TV 98J Fiction Workshop (Editing/Post Production) 3 Units
Prerequisite: Film/Television 20, 22, or 51A.

Six hours lecture-laboratory.

(Any combination of Film/Television 98G, 98H, and 98J may be taken up to six times, not to exceed 18 units, for the family of courses.)

Advanced workshop in the post-production phase including elements of picture and sound editing and sound mixing for narrative/dramatic film and video projects.

French

FREN 1 Elementary French (First Quarter) 5 Units
(See general education pages for the requirement this course meets.)

Advisory: English Writing 200 and Reading 201 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Five hours lecture, one hour laboratory.

Introduction to the language and cultures of the French-speaking countries. Basic speaking, listening, reading and writing of French will be introduced and practiced within a cultural framework. Emphasis will be on language as an expression of culture. Language laboratory practice to reinforce pronunciation, grammar and syntax. (FREN 1+2+3, or FREN 10 = CAN FREN SEQ A)

FREN 2 Elementary French (Second Quarter) 5 Units
(See general education pages for the requirement this course meets.)

Prerequisite: French 1.

Five hours lecture, one hour laboratory.

Further development of material presented in French 1. Continuation of introduction to the language and cultures of the French-speaking countries. Basic speaking, listening, reading and writing of French will be introduced and practiced within a cultural framework. Emphasis will be on language as an expression of culture. Language laboratory practice to reinforce pronunciation, grammar and syntax. (FREN 1+2+3, or FREN 10 = CAN FREN SEQ A)

FREN 3 Elementary French (Third Quarter) 5 Units
(See general education pages for the requirement this course meets.)

Prerequisite: French 2.

Five hours lecture, one hour laboratory.

Further development of material presented in French 1 and 2. Completion of introduction to the language and cultures of the French-speaking countries. Basic speaking, listening, reading and writing of French will be introduced and practiced within a cultural framework. Emphasis will be on language as an expression of culture. Language laboratory practice to reinforce pronunciation, grammar and syntax. (FREN 1+2+3, or FREN 10 = CAN FREN SEQ A)

FREN 4 Intermediate French (First Quarter) 5 Units
(See general education pages for the requirement this course meets.)

Prerequisite: Demonstrated proficiency in the language competency descriptions for level three, or equivalent of level three.

Five hours lecture.

Reading and discussion of texts dealing with the literature, arts, geography, history and culture of the French-speaking world. Review of the linguistic functions and grammar structures of first-year French. Development of reading, writing, speaking and listening skills at the first intermediate level. (FREN 4 + 5 + 6 = CAN FREN SEQ B)

FREN 5 Intermediate French (Second Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: Demonstrated proficiency in the language competency descriptions for level four, or equivalent of level four.
Five hours lecture.
 Reading and discussion of texts dealing with the literature, arts, geography, history and culture of the French-speaking world. Review of the linguistic functions and grammar structures of first-year French. Development of reading, writing, speaking and listening skills at the second intermediate level.
 (FREN 4 + 5 + 6 = CAN FREN SEQ B)

FREN 6 Intermediate French (Third Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Prerequisite: Demonstrated proficiency in the language competency descriptions for level five, or equivalent of level five.
Five hours lecture.
 Reading and discussion of texts dealing with the literature, arts, geography, history and culture of the French-speaking world. Review of the linguistic functions and grammar structures of first-year French. Development of reading, writing, speaking and listening skills at the third intermediate level.
 (FREN 4 + 5 + 6 = CAN FREN SEQ B)

FREN 10 Intensive French (First Year) 15 Units
Advisory: English Writing 200 and Reading 201 (or Language Arts 200), or English as a Second Language 261, 262 and 263.
One hundred eighty hours lecture, thirty-six hours laboratory for the quarter.
 Development and practice of skills for oral and written communication supported by essentials of grammar, syntax, vocabulary and pronunciation. Language of instruction is primarily French.
 (FREN 1+2+3, or FREN 10 = CAN FREN SEQ A)

FREN 13A Intermediate Conversation (First Quarter) 3 Units
Prerequisite: French 3, or three years of high school French, or equivalent.
Three hours lecture.
 Review and development of conversational skills in the targeted functions studied in first-year French with attention to fluency, vocabulary, idiom, and pronunciation. Practice in conversational exchanges and strategies. Discussion of culturally relevant topics and situations.

FREN 13B Intermediate Conversation (Second Quarter) 3 Units
Prerequisite: French 4 or 13A, or four years of high school French, or equivalent.
Three hours lecture.
 Continued practice and development of conversational skills in the targeted functions studied in first-year French with increased attention to fluency, vocabulary, idiom, and pronunciation. Practice in conversational exchanges and strategies emphasizing improvisational skills. Discussion of culturally relevant topics and situations.

FREN 13C Advanced Conversation 3 Units
Prerequisite: French 5 or 13B, or equivalent.
Three hours lecture.
 Continued practice and development of conversational skills in the targeted functions studied in first-year French, with greater communicative competence. Increased control of conversational exchanges and strategies. Discussion of culturally relevant topics and situations.

FREN 77 Special Projects in French 1 Unit
FREN 77X 2 Units
FREN 77Y 3 Units
 (Formerly French 40, 40X, and 40Y.)
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit.
(Any combination of French 77, 77X, and 77Y may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)
 Special reading, writing, or study projects in any discipline in French, determined in consultation with the instructor.

FREN 90A Introductory French (First Quarter) 3 Units
Three hours lecture, one hour laboratory.
 A practical course in the French language, approached by intensive drills in the patterns and idioms of daily speech supported by sufficient grammar to give flexibility in the spoken language.

FREN 90B Introductory French (Second Quarter) 3 Units
Prerequisite: French 90A.
Three hours lecture, one hour laboratory.
 Continuation of French 90A.

FREN 90C Introductory French (Third Quarter) 3 Units
Prerequisite: French 90B.
Three hours lecture, one hour laboratory.
 Continuation of French 90B.

Geography

GEO 1 Physical Geography 4 Units
(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5; Mathematics 200 or 210.
Four hours lecture.
 An introduction to the basic physical elements of geography and the diverse physical environment in which we live. Topics include the global patterns of weather and climate, land forms, soils and vegetation along with human modification of natural environments.
 (CAN GEOG 2)

GEO 4 Cultural Geography 4 Units
 (Formerly Geography 50.)
(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5; Mathematics 200 or 210.
Four hours lecture.
 Examining the location of people and activities throughout the world and understanding the reasons for the distribution. Topics covered include population and migration, human impact on landscape, the geography of language, religion and ethnicity, economic activities, political organization and settlement patterns including the urban environment.

GEO 10 World Regional Geography 4 Units
(See general education pages for the requirement this course meets.)
Advisory: English Writing 1A or English as a Second Language 5; Mathematics 200 or 210.
Four hours lecture.
 An introduction to the major distinctive regions of the world; their natural environment, people, resources, agriculture, manufacturing, trade, cities and the problems relating to contemporary society in each of the regions. Understanding the increasing interdependencies among and between regions.

Geology

GEOL 10 Introductory Geology 5 Units
(See general education pages for the requirement this course meets.)
Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.
Four hours lecture, three hours laboratory and a one-day field trip.
 Analysis of the composition, structure, and description of the earth's external and internal features. Examination of the concepts and principles upon which geologic knowledge is based. One Saturday field trip is required.
 (CAN GEOL 2)

GEOL 77 Special Projects in Geology 1 Unit
GEOL 77X 2 Units
GEOL 77Y 3 Units
 (Formerly Geology 40, 40X, and 40Y.)
Prerequisite: Consent of instructor and division dean.
Three hours laboratory for each unit of credit.
(Any combination of Geology 77, 77X, and 77Y may be taken up to six times, not to exceed 18 units, as long as the topics/projects are different each time.)
Pass-No Pass (P-NP) course.
 Individual special reading, writing, or study projects in Geology as determined in consultation with the instructor.

German

GERM 1 Elementary German (First Quarter) 5 Units
(See general education pages for the requirement this course meets.)
Advisory: English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173.
Five hours lecture, one hour laboratory.
 Introduction to the language and cultures of the German-speaking countries. Basic speaking, listening, reading and writing of German will be introduced and practiced within a cultural framework. The emphasis will be on language as an expression of culture. Language laboratory practice to reinforce pronunciation, grammar and syntax.
 (GERM 1+2+3, or GERM 10 = CAN GERM SEQ A)