

## 2009-11 Cal Poly Catalog

### [Art and Design Department](#)

#### ART

##### **ART 101 The Fundamentals of Drawing (4) GE C3**

Introduction to the artistic practice and cultural value of drawing from the Renaissance to the 21<sup>st</sup> Century. Emphasis and expansion of the practical skills of observation, rendering, and understanding the signs of meaning produced in visual art. Development of formal techniques, media experimentation, and content creation through personal expression. Exercises to encourage growth in technical skill, conceptual innovation, critical thinking, and visual communication. 3 lectures, 1 laboratory. Fulfills GE C3.

##### **ART 105 Foundation: Color Theory (4)**

Beginning color theory covering hue, value, intensity and complementary mixtures. Spatial effects, cultural context and psychological aspects of color. 3 lectures, 1 laboratory.

##### **ART 106 Foundation: 2-Dimensional Design (4)**

Elements and principles of design, the interrelationship between form and content and creative problem solving strategies. 3 lectures, 1 laboratory. Prerequisite: ART 105.

##### **ART 107 Foundation: 3-Dimensional Design (4)**

Elements, principles and criticism of three-dimensional design. Historical, contemporary and multidisciplinary topics. 3 lectures, 1 laboratory. Prerequisite: ART 106.

##### **ART 111 Introduction to Art (4) GE C3**

Designed to acquaint the non-art major with painting, sculpture, drawing, crafts, architecture and printmaking. Development of vocabulary, analytic skills, and research techniques for the understanding of art objects. 4 lectures. Fulfills GE C3.

##### **ART 112 Survey of Western Art (4) GE C3**

History of major art movements in western civilization from ancient art to the twentieth century. Representative periods of western culture, such as the ancient world, the Middle Ages, the Renaissance, and the modern world. 4 lectures. Fulfills GE C3.

##### **ART 121 Basic Digital Photography (4)**

Fundamental techniques in photography. Mechanics of digital cameras and equipment, optics, composition, filters, and subject content. Understanding photographic principles. Digital camera required. 3 lectures, 1 laboratory.

##### **ART 148 Beginning Sculpture (4) GE C3**

Exploration of three dimensional form through problems in modeling, casting, carving, and techniques of assembly. Historical and contemporary concepts as applied to the discipline of sculptural styles. 3 lectures, 1 laboratory. Fulfills GE C3.

##### **ART 182 Photographic Manipulation and Design (4)**

Introduction to photographic image manipulation software for design, photography and studio students. Fundamental technical skills of current software and their potential for content creation, invention and expression. 3 lectures, 1 laboratory.

##### **ART 183 Digital Illustration and Design (4)**

Introduction to digital illustration. Fundamental technical skills and their potential for content creation, invention and expression. 3 lectures, 1 laboratory. Prerequisite: ART 182.

##### **ART 184 Digital Book Making and Design (4)**

Introduction to book making. Fundamental technical skills of current software as well as their potential for content creation, invention, and expression. Desktop publishing as well as the creation of fine art books. 3 lectures, 1 laboratory. Prerequisite: ART 182.

##### **ART 200 Special Problems for Undergraduates (1–2)**

Individual investigation, research, studies or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter. Prerequisite: Consent of instructor.

##### **ART 201 Intermediate Drawing (4)**

Development of additional drawing techniques with emphasis on form content, pictorial space, B/W media, color, mixed media and composition. 3 lectures, 1 laboratory. Prerequisite: ART 101, 106, or consent of instructor.

##### **ART 203 Art Theory and Practice (4)**

Contemporary issues in art and design, linking "ideas" to development of concepts. Emphasis on individual creative process, and problem solving. Focus on contemporary critical thinking regarding aesthetics, techniques, and vocabulary. 3 lectures, 1 laboratory. Prerequisite: ART 101 and ART 106, or consent of instructor.

##### **ART 209 Beginning Painting (4)**

Introduction to technical and formal problems in painting. Exploration of pictorial space, light, and color from observation. Physical characteristics of paint, various tools, studio methods, and styles of painting. 3 lectures, 1 laboratory. Prerequisite: ART 101 and ART 105 or consent of instructor.

##### **ART 211 Art History—Ancient to Renaissance (4)**

Development of art from antiquity to the early stages of the Renaissance in Europe. Particular emphasis on European art with appropriate references to sources from antiquity which have been particularly influential on European painting and sculpture. Comparison of relevant parallel examples of the art of non-European cultures. 4 lectures.

##### **ART 212 Art History—Renaissance through Baroque Eras (4)**

The significant visual expressions of Northern and Southern European art of the Renaissance and Baroque period. Relevant parallel examples of the art of non-European cultures. 4 lectures.

##### **ART 222 Black and White Photography (4)**

Control of tonal range using 35mm cameras and available daylight illumination. Assignments encourage development of composition and visual communication skills. Emphasis on "photographic seeing" and professional quality enlargements. 2 lectures, 2 laboratories.

##### **ART 224 Introduction to Artificial Lighting for Photography (4)**

Studio lighting is used to introduce the student to contemporary professional studio photography. Quality developing and printing skills are required. Introduction to current examples of professional studio lighting. 3 lectures, 1 laboratory. Prerequisite: ART 222.

##### **ART 227 Lifestyle Photography (4)**

Studio and environmental portraiture. Emphasis on light ratios/patterns; posing; personality portrayal. 3 lectures, 1 laboratory. Prerequisite: ART 224. *Formerly ART 327.*

##### **ART 237 Graphic Design I (4)**

Exploration of the technical and conceptual underpinnings of graphic design. Focus on the design process and how raw ideas are translated into professional work. For Art and Design majors only. 3 lectures, 1 laboratory. Prerequisite: ART 107 and ART 184, or consent of instructor. *Formerly ART 232.*

##### **ART 238 Typography I (4)**

Fundamentals of theory, practice, technology and history of typography. Exercises include the study of letterforms, type with image, proportion and grids, hierarchy, and legibility. For Art and Design majors only. 3 lectures, 1 laboratory. Prerequisite: ART 237 or consent of instructor. *Formerly ART 331.*

##### **ART 241 Introduction to Glass Fusing and Forming (4)**

Studio course in the creative processes of fusing, forming, and assembling glass. Introduction to the use of line, color, and texture related to glass as a transparent or opaque material. Total credit limited to 8 units. 1 lecture, 3 activities. Prerequisite: ART 101 and ART 107 or ART 148 or consent of instructor.

##### **ART 245 Ceramics I (4)**

Studio course in basic clay working with emphasis on design quality, hand building, and use of the potter's wheel. 3 lectures, 1 laboratory. Prerequisite: ART 107 or consent of instructor.

##### **ART 260 Art Critique and Discourse (4)**

Developing an individual "body" of artwork. Rigorous critiques, lectures, and seminar-style discussions aimed at forming a "process" for discussing artwork. Art writing, research, and individual conceptual and formal development. 4 lectures. Prerequisite: ART 101 and ART 107.

##### **ART 270 Selected Topics (1–4)**

Directed group study of selected topics. The Schedule of Classes will list title selected. Total credit limited to 8 units. 1 to 4 lectures. Prerequisite: Open to undergraduate students and consent of instructor.

##### **ART 301 Advanced Drawing (4)**

Development of advanced methods and techniques in rendering form, composing pictorial space, expanding formats, color, content, and contemporary issues in drawing as a discipline. Emphasis on problem-solving and finished works for a

student's portfolio. Total credit limited to 8 units. 3 lectures, 1 laboratory.  
Prerequisite: ART 201, ART 203 and ART 209, or consent of instructor.

**ART 302 Life Drawing I (4)**

Development of advanced drawing methods and techniques in the study of the human form and structure as it relates to proportion, anatomical analysis, and figure/ground relationships. Understanding materials, techniques, and ideas in the practice of contemporary figure drawing. Total credit limited to 8 units. 3 lectures, 1 laboratory. Prerequisite: ART 201.

**ART 309 Intermediate Painting (4)**

Continuation of study of technical and formal problems in painting. Emphasis on the creative process, development of individual ideas, and the connection between form and content. Contemporary issues in painting introduced. Total credit limited to 8 units. 3 lectures, 1 laboratory. Prerequisite: ART 209, or consent of instructor.

**ART 310 Art History—American Art (4)**

Major historical periods of American art from the colonial period to the present. Special emphasis will be given to the broader notion of American art as a process of developing an identity of the varied historical and sociological forces that have shaped images in American art. 4 lectures. Prerequisite: One lower division art history course or consent of instructor.

**ART 311 Art History—Nineteenth Century Art (4) GE C4**

History of painting and sculpture from the French Revolution to the beginning of the 20th century. Focuses on significant movements such as Neo-Classicism, Romanticism, Realism, Impressionism and Post-Impressionism. 4 lectures. Prerequisite: Junior standing; completion of GE Area A and ART 111 or ART 112. Fulfills GE C4 except for Art and Design majors.

**ART 312 Art History—Modern Art, 1900-1945 (4)**

History of visual arts from the beginning to the middle of the twentieth century. Focus on significant European movements such as Fauvism, German Expressionism, Cubism, Dada, and Surrealism, as well as American Modernism. 4 lectures. Prerequisite: ART 211 or ART 212 or consent of instructor.

**ART 313 Design History (4)**

Survey of design from the Victorian era to the present, including major philosophies and movements, political, social, cultural, and technological trends that influenced designers in the 20<sup>th</sup> century. 4 lectures. Prerequisite: Any lower division art history course.

**ART 314 History of Photography (4) GE C4**

In-depth survey of the artistic and cultural achievements in photography from its invention to the present day. Significant photographers, the evolution of aesthetic criteria in the context of other visual arts as well as social/cultural impact. 4 lectures. Prerequisite: Junior standing; completion of GE Areas A and C3. Fulfills GE C4 except for Art and Design majors.

**ART 315 Art History—Art Since 1945 (4)**

History of visual art from 1945 to the present. Focus on significant movements such as Abstract, Expressionism, Pop art, minimalism, conceptual art, earthworks, feminism, and postmodernism. Also focus on new media such as performance, video, and installation. 4 lectures. Prerequisite: ART 211 or ART 212, or consent of instructor.

**ART 316 Women as Subject and Object in Art History (4)**

Exploration of the role of women in the visual arts. Women as artists, women as portrayed in art, and feminist theory as it applies to the study of the visual arts and art history. 4 lectures. Prerequisite: ART 111, ART 112 or consent of instructor. *Crosslisted as ART/WGS 316.*

**ART 317 Asian Art Survey (4)**

Survey of the traditional arts of Asia – primarily India, China and Japan. Emphasis on the connections between the visual arts in Asia and the philosophical, social and cultural environments in which they arose. 4 lectures. Prerequisite: ART 111 or ART 112, or ART 211, or consent of instructor.

**ART 318 Asian Art Topics: National, Religious, and Intellectual Movements (4) GE C4**

In-depth examination of significant art movements in Asia. Each topic will focus on the development of art in Asia within the context of a specific geographical or theoretical framework. Details will vary depending on topic. The Schedule of Classes will list topic selected. Total credit limited to 12 units. 4 lectures. Prerequisite: Junior standing; completion of GE Areas A and C3. Fulfills GE C4 except for Art and Design majors.

**ART 324 Photographic Expression (4)**

Emphasis on personal expression and developing style, introduction to symbology, visual source development and the work of contemporary creative photographers. 2 lectures, 2 laboratories. Prerequisite: ART 222.

**ART 325 Advanced Camera Techniques (4)**

Advanced camera techniques using large format film and/or digital cameras. Use of architectural exteriors, interiors, landscapes and simple studio set-ups to assist mastery of large format cameras. Other topics include perspective and sharpness correction, lighting (available and artificial), digital imaging and studio equipment. High quality imaging for commercial application emphasized. 3 lectures, 1 laboratory. Prerequisite: ART 224.

**ART 329 Editorial Photography (4)**

Creating, lighting and executing editorial assignments. Producing photography for corporate needs, i.e. annual reports, brochures and in-house publications. Emphasis on selecting subject matter and handling lights. 3 lectures, 1 laboratory. Prerequisite: ART 325.

**ART 330 Book Arts (4)**

Numerous traditional book structures and derivations including accordion, pamphlet, stab, and multiple signature construction. Emphasis on both craftsmanship and experimentation. Hands-on experience and a broad historical overview of paper and book arts. 3 lectures, 1 laboratory. Prerequisite: ART 107, or consent of instructor.

**ART 334 Illustration I: Techniques and Tools (4)**

Introduction to the basic practices of commercial illustration as used in the visual communications industry. Emphasis on the generation of ideas, rendering techniques and tools, and self marketing methods, with an overview of the history of illustration. 3 lectures, 1 laboratory. Prerequisite: ART 101 or consent of instructor.

**ART 336 Exhibition Design/Museum Studies (4)**

Theory and applied principles of exhibition design for art objects in the museum or gallery setting. Class responsible for planning and installing actual gallery exhibitions. 3 lectures, 1 laboratory. Prerequisite: ART 107, or consent of instructor.

**ART 337 Graphic Design II (4)**

Exploration of identity design problems through the use of symbolism and metaphor. Design and implementation of corporate logos. For Art and Design majors only. 3 lectures, 1 laboratory. Prerequisite: ART 237. *Formerly ART 333.*

**ART 338 Typography II (4)**

Exploration of typography in the form of text. Application of different typefaces, composition, layout and page systems for the design of periodicals and books. For Art and Design majors only. 3 lectures, 1 laboratory. Prerequisite: ART 238. *Formerly ART 433.*

**ART 341 Glassblowing (4)**

Survey of history of glass and introduction to contemporary glass art, presented through visual examples in slide/lecture format. Development of tools and forming processes introduced while student develops 3-dimensional projects. Total credit limited to 8 units. 3 lectures, 1 activity. Prerequisite: ART 101, ART 148 and ART 241; or consent of instructor.

**ART 345 Ceramics II (4)**

Studio course in hand, wheel, mold, extruder, jigger, and press forming skills. Design of single and multiple forms and kiln firing procedures. Total credit limited to 8 units. 3 lectures, 1 laboratory. Prerequisite: ART 107, ART 148, or ART 245 or consent of instructor.

**ART 348 Intermediate Sculpture (4)**

Intermediate sculpture course in expressive use of form with modeling, casting, carving, and/or assembly. Total credit limited to 8 units. 3 lectures, 1 laboratory. Prerequisite: ART 107 and ART 148, or consent of instructor.

**ART 353 Intermedia/Art (4)**

Studio course emphasizing individual and collaborative creative exploration with project content derived from student's experience. Focus on using traditional as well as new genres of artistic expression such as site specific installations, video art, book works, and performance art. The Schedule of Classes will list topic selected. Total credit limited to 8 units. 3 lectures, 1 laboratory. Prerequisite: ART 101, ART 106, and ART 148, or consent of instructor.

**ART 360 Professional Practices (2)**

Professional practices in the art, photography, and design fields, including legal and ethical issues, taxes, contracts, fees and copyrights. Current job opportunities are researched and a business plan is prepared. Course lectures augmented by

visiting professionals. For Art and Design majors only. 2 lectures. Prerequisite: Junior standing. *Formerly ART 460.*

**ART 370 Michelangelo (4) GE C4**

The art and life of Michelangelo (1475-1564), the renowned painter, sculptor, architect, and poet, with reference to early biographies, his artistic development, and the demands of his patrons. 4 lectures. Prerequisite: Completion of GE Areas A and ART 111 or ART 112 or ART 211 or ART 212. Fulfills GE C4 except for Art and Design majors. *New course, effective Winter 2010.*

**ART 371 Topics in Renaissance Art (4) GE C4**

A thematic analysis of Renaissance Art (1300-1600) with special attention paid to politics, patronage, myth, religion, and the development of new genres and subject matter. 4 lectures. Prerequisite: Completion of GE Area A; ART 111 or ART 112. Fulfills GE C4 except for Art and Design majors. *New course, effective Spring 2010.*

**ART 380 Design Principles for the Web (4)**

Exploration of design principles in the development of websites that are interactive, dynamic, and visually imaginative. Emphasis on color, typography, organization, and content. For Art and Design majors only. 3 lectures, 1 laboratory. Prerequisite: ART 237.

**ART 383 Digital Video (4)**

Video and computer generated multimedia presentation scripting, editing, storyboarding and sound cutting. Emphasis on effective communication using presentation techniques and application software to create high impact applications. 2 lectures, 2 laboratories. Prerequisite: ART 182. *Formerly ART 483.*

**ART 384 Digital 3D Modeling and Design (4)**

Development of skills and techniques in the use of three-dimensional design and modeling via digital technology. Capabilities of current software in the design and modeling of three-dimensional form. 2 lectures, 2 activities. Prerequisite: ART 107 and ART 182, or consent of instructor. *Formerly ART 335.*

**ART 388 Web Design (4)**

Planning and implementation of web sites. Focus on site structure, navigation, HTML, animation, and design considerations. Art and Design majors only. 3 lectures, 1 laboratory. Prerequisite: ART 182 or consent of instructor. *Formerly ART 487.*

**ART 400 Special Problems for Advanced Undergraduates (1-2)**

Individual investigation, research, studies, or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter. Prerequisite: Senior standing and consent of instructor.

**ART 402 Life Drawing II (4)**

Advanced problems in life drawing. Advanced methods and techniques in the study of the human form as it relates to proportion, anatomy analysis and composition. Total credit limited to 8 units. 3 lectures, 1 laboratory. Prerequisite: ART 302

**ART 406 Contemporary Issues in Painting (4)**

Focused investigation into contemporary topics in painting, with connections made to traditional approaches. Formal concerns (color, space, light, composition) balanced with conceptual development. Topics may include, but are not limited to, the human figure, landscape, and technological influences. The Schedule of Classes will list topic selected. Total credit limited to 8 units. 3 lectures, 1 laboratory. Prerequisite: ART 309 or consent of instructor.

**ART 409 Advanced Painting (4)**

Advanced problems in painting. Emphasis on the creative process from concept to finished art. Investigation of traditional, non-traditional and explorative work. to encourage development of personal approach. Total credit limited to 8 units. 3 lectures, 1 laboratory. Prerequisite: ART 309, or consent of instructor.

**ART 410 Art History Methodologies and Research (4)**

Current and historical methods for the study of art history including formalism, social history, semiotics, feminism, cultural diversity. Completion of a major research paper or writing project on an art historical topic. 4 seminars. Prerequisite: Completion of GE Area A and two art or architectural history courses, including one at the 300- or 400-level.

**ART 425 Contemporary Photography Seminar (2)**

Survey of significant photographers and developments in the field since 1950. The interaction between photography and the other visual arts as well as its social impact during this period. Student presentations on selected research topics. Total credit limited to 4 units. 2 seminars. Prerequisite: ART 314. *Formerly ART 465.*

**ART 427 Advertising Photography (4)**

Applied principles of design and color to produce a photograph that sells an idea, product, or service. Both traditional and digital applications used. Joint projects with ART 432, Advertising Design. Emphasis on thinking, planning, interpreting, and presenting an idea photographically. 3 lectures, 1 laboratory. Prerequisite: ART 325 and senior standing.

**ART 432 Advertising Design (4)**

Development of print advertising from concept to final presentation. Emphasis on art direction, photo direction and copywriting. For Art and Design majors only. Computer applications are required for appropriate problems. 3 lectures, 1 laboratory. Prerequisite: ART 337 and senior standing or consent of instructor.

**ART 434 Illustration II (4)**

Advanced development of concepts and illustration techniques and skills, both as analogue and digital, for use in a variety of graphic design applications such as editorial/publication, retail, educational, technical, or advertising purposes. For Art and Design majors only. 3 lectures, 1 laboratory. Prerequisite: ART 334, ART 209, or consent of instructor.

**ART 437 Graphic Design III (4)**

Advanced graphic design. The creation of basic 3-D structures, and the application of graphics in 3-D environments (such as package design and signage). Emphasis on integrative communication activity of all elements including: color, graphics, 3-D forms, typography, and constructions, and includes market research. For Art and Design majors only. 3 lectures, 1 laboratory. Prerequisite: ART 337. *Formerly ART 431.*

**ART 438 Typography III (4)**

Advanced exploration of communication and structural aspects of typography. Focus on experimentation and expressively using type to enhance meaning. For Art and Design majors only. 3 lectures, 1 laboratory. Prerequisite: ART 338 or consent of instructor. *Formerly ART 430.*

**ART 439 Type in Motion (4)**

Sequential organization of typographic information in time and how ideas such as intonation, proximity, pacing, rhythm and progression can influence and shape meaning. Focus on animated typography for a range of applications. For Art and Design majors only. 3 lectures, 1 laboratory. Prerequisite: ART 438, ART 488.

**ART 440 Advanced Selected Topics in Glass (4)**

Continued exploration into the expressive use of glass as a creative medium. Topics may include glass casting, glass blowing, cane work, mold making, and kiln work. The Schedule of Classes will list topic selected. Total credit limited to 12 units. 2 lectures, 2 activities. Prerequisite: ART 241 or ART 341, or consent of instructor.

**ART 448 Advanced Topics in Sculpture (4)**

Studio course specializing in three-dimensional form. Materials include clay, plaster, metal, or wood. Course content will be selected from various topics that are representational, abstraction, non-objective, or conceptual. The Schedule of Classes will list topic selected. Total credit limited to 8 units; may be in same term. 3 lectures, 1 laboratory. Prerequisite: ART 348.

**ART 461 Senior Project (2)**

Selection and completion of a project under faculty supervision. Minimum of 90 hours time. Results presented in a formal report. Prerequisite: Senior standing and ~~ART 460-360~~. *Corrected effective Summer 2009.*

**ART 462 Senior Portfolio Project (2)**

Preparation of portfolio system for entrance into the professional job market or graduate school. 2 activities. Prerequisite: Senior standing and ~~ART 461-360~~. *Change effective Winter 2010.*

**ART 468 Portfolio Production (1)**

Physical production of final portfolio for the graduating senior. 1 laboratory. Prerequisite: Senior standing; concurrent enrollment in ART 462 required. *Formerly ART 428.*

**ART 470 Selected Advanced Topics (1-4)**

Directed group study of selected topics for advanced students. Open to undergraduate and graduate students. The Schedule of Classes will list title selected. Total credit limited to 8 units. 1 to 4 lectures. Prerequisite: Consent of instructor.

**ART 471 Selected Advanced Laboratory (1-4)**

Directed group laboratory study of selected topics for advanced students. Open to undergraduate and graduate students. The Schedule of Classes will list title selected. Total credit limited to 8 units. 1 to 4 laboratories. Prerequisite: Consent of instructor.

**ART 474 Collaborative Studio: Rendering, Animation and Modeling (4)**

A collaborative visualization and design studio focusing on rendering, animation and modeling. Modeling and animation software for design conceptualization and expression. Collaboration in teams. Total credit limited to 8 units. 2 lectures, 2 activities. Prerequisite: ART 384 or consent of instructor.

**ART 484 Animation, Video, and Interactive Design (4)**

Creation of in-depth animations and interactive presentations. Advanced scripting, storyboarding, video production, and interactive communication techniques. 3 lectures, 1 laboratory. Prerequisite: ART 182.

**ART 486 Photography: Image and Idea (4)**

Advanced communication and expression through primarily digital methods. Emphasis on the development of conceptual skills and problem solving methods and technical skills aimed toward the development of a creative voice. Analysis of contemporary practice in the field of photography and other visual media. 3 lectures, 1 laboratory. Prerequisite: ART 222, ART 314.

**ART 488 Advanced Web Design (4)**

Conceptual and technical objectives: the development of the theoretical skills necessary to design a successful web user interface, information architecture and visual identity for digital projects, and the development of technical skills necessary to design advanced interactivity with Macromedia Flash and JavaScript. 3 lectures, 1 laboratory. Prerequisite: Art and Design majors only, ART 388, or consent of instructor.

**ART 489 Advanced Interactive Media Art (4)**

Advanced topics in the digital media field such as interface design, information architecture techniques, digital typography and interactive storytelling. Survey of new applications of design for the new media, and the development of digital portfolio pieces. 3 lectures, 1 laboratory. Prerequisite: ART 488, or consent of instructor.

**ART 494 Cooperative Education Experience (6) (CR/NC)**

Part-time work experience in business, industry, government, and other areas of student career interest. Positions are paid and usually require relocation and registration in course for two consecutive quarters. Formal report and evaluation by work supervisor required. Major credit limited to 12 units; total credit limited to 12 units. Credit/No Credit grading only. Prerequisite: Sophomore standing and consent of instructor.

**ART 495 Cooperative Education Experience (12) (CR/NC)**

Full-time work experience in business, industry, government, and other areas of student career interest. Positions are paid and usually require relocation and registration in course for two consecutive quarters. Formal report and evaluation by work supervisor required. Major credit limited to 12 units; total credit limited to 12 units. Credit/No Credit grading only. Prerequisite: Sophomore standing and consent of instructor.