

# *Programs and Courses of Instruction*

## **Accounting**

*(See page 98.)*

## **Anthropology (ANT)**

**Assistant Professor DeBoer**

### **308 Cultural Anthropology (3)**

An anthropological investigation of the meaning, content, and acquisition of the ways of thinking, doing and behaving as individuals in society. **This course fulfills the Cultural Perspective requirement of the Doane Plan.** *(Cross-referenced with Sociology 308.)*

## **Art (ART)**

**Professor Martin**

**Professor Terrell**

**Instructor Knobel**

**Adjunct Instructor Easton**

**Adjunct Instructor Stastny**

Doane College's art department offers courses which prepare students for careers in the visual arts and which provide general appreciation of cultural heritage. The art major has four emphases: the liberal arts emphasis, which is often combined with a major from another field; the certification emphasis, which prepares students for public school certification; and the professional and graphic arts emphases, which prepare students for professional careers and/or graduate studies.

### **Requirements for the Art Major:**

Complete 1, 2 or 3.

1. Art major with a liberal arts emphasis (36 credits in Art):
  - a. Art 107, 110, 207, 235, 307.
  - b. Art 204, 205, 252, 358.
  - c. A total of 15 additional credits in elective studio courses
  - d. Participation in a group senior exhibition
2. Art major with a professional emphasis (55-65 credits in Art):

This emphasis is for students who plan on further study at the graduate school level or whose professional goals require a highly accomplished portfolio of artworks. Admission is accomplished

through a written declaration of intent by the student and a portfolio review by the Art department faculty at the end of the sophomore year. The Art department will admit students who show clear promise of developing a professional level of artistic achievement on the basis of work done at Doane. Mere application does not necessarily result in permission to pursue this emphasis.

- a. Art 107, 110, 207, 235, 307, 407.
  - b. Art 204, 205, 252, 254, (or 358).
  - c. A total of 25-35 additional elective credits in studio courses.
  - d. Solo senior exhibition or thesis (Art history thesis can be submitted in lieu of exhibition if the student has taken 15 credits of Art history).
3. Art major with a graphic arts emphasis (55-65 credits in Art):
- a. Art 107, 110, 207, 225, 235, 307, 407.
  - b. Art 204, 205, 252, 358 (or 254).
  - c. A total of 25-35 elective credits in studio courses. A minimum of 21 of these credits must be chosen from the following: Art 256, 258, 270, 303, 304, 357, 403, 404.
  - d. Participation in a group senior exhibition.
4. Students seeking certification for public school teaching of art must complete the following (54 credits in Art):
- a. Art 107, 110, 201, 207, 209, 211, 221, 235, 307.
  - b. Art 310, 315, 320, 325, 326.
  - c. Art 204, 205, 252, 358.
  - d. A total of seven elective credits in art.
  - e. All requirements listed under the catalog section Secondary Education.
  - f. Participation in a group senior exhibition.

#### **Requirements for the Art Minor:**

Complete the following 18 credits in Art:

1. Art 107, 207 (or 110).
2. Art 204 (or 205), 252.
3. Six additional credits in art.

#### **107 Two-Dimensional Design (3)**

A course which focuses on the fundamentals of visual composition and design theory. Students work in various media, exploring the visual potential of line, color, texture, pattern, light and shadow, and space. Students will be able to apply the principles and elements of design, to understand how these principles and elements interact, and to analyze and evaluate the quality of design and form.

#### **110 Three-Dimensional Design (3)**

A course which introduces the student to basic methods of sculptural processes in additive and subtractive techniques.

**201-202 Painting (3) (3)**

Painting in oil, acrylic, and watercolor. Open to non-art majors. *Prerequisite: Art 107.*

**204 Visual Communication in History I (3)**

A presentation of the various patterns of symbolic communication used in European, African and Middle-Eastern cultures and civilizations, from pre-historic times through the later Middle Ages. Topics include the Egyptian pyramids, Stonehenge, the classical heritage of Greece and Rome, and the Christian arts of Rome, Byzantium and northern Europe. Students will be able to articulate the meanings of artworks in their historical context. *Offered alternate fall terms.*

**205 Visual Communication in History II (3)**

A discussion of the symbolic expression of ideas and values from the 14th century proto-Renaissance through 17th century Baroque. The major visual arts of architecture, painting, and sculpture are studied in the context of important historical, philosophic, and spiritual concerns. Students will be able to articulate the meanings of artworks in their historical context. *Offered alternate spring terms.*

**207 Drawing (3)**

An exploration of various drawing media in relation to the expression of still life objects and the human figure. Students will learn to sketch fundamental shapes, draw still life compositions and develop the ability to draw what they see through the use of the principles and elements of design.

**209 Sculpture (3)**

Basic methods in three-dimensional art, including carving, casting, construction, and modeling.

**211-212 Printmaking (3) (3)**

Studio work exploring various intaglio processes in zinc and copper. Emphasis is given to etching, engraving, aquatint, and soft-ground techniques. *Prerequisite: Art 107. Offered alternate years.*

**221-222 Ceramics (2-3) (2-3)**

Studio work in ceramics. Emphasis is given to various methods of making pottery-slab, coil, and wheel-thrown pottery. **Open to non-art majors.**

**224 Fundamentals of Photography (3)**

An introduction to the basic principles of photography, including 35mm camera operations, film, lenses, darkroom operations, and lighting. Students must provide their own cameras and process their own work, completing a series of black and white photographs.

**225 Typography (3)**

A study of the history and character of various letter forms. Students create visual works in which letters and text are the primary design elements. Finished projects will be executed in traditional and digital methods. Students will submit a portfolio of work for evaluation. *Prerequisite: Art 107.*

**235 Color Theory and Application (3)**

The study of color systems and interaction through studio work, computer programs, and the consideration of historically notable works of art. Students will demonstrate their understanding through the creation of a portfolio of works. *Prerequisite: Art 107. Offered alternate fall terms.*

**245 Ceramic Tile Design (3)**

A studio course exploring methods and techniques of creating handmade ceramic tiles. The course includes a study of the tile-making process in terms of its history and the design and installation of projects. Students will create finished projects that represent the full process of shaping, glazing, firing, and mounting design. *Offered alternate fall terms.*

**252 Modern Art (3)**

The study of architecture, sculpture and painting in Europe from the 18th century through the present. Attention is given to the role of the visual arts in political and social milieu, the impact of aesthetic theories, and the revolutionary impulses in modern Western civilization. Students will articulate the meanings and significance of artworks in their historical context. *Offered alternate fall terms.*

**254 The Visual Arts in the United States (3)**

The history of the visual arts of architecture, sculpture, and painting in America from colonial times through the present. Emphasis is placed on the inter-relationships of the visual arts and social, political, and spiritual concerns. Students will articulate the meanings and significance of artworks in their historical context. *Offered alternate spring terms.*

**256 Illustration (3)**

The development of concepts and techniques relevant to the interpretation of stories, historical and contemporary events, architecture, and nature. The course includes an historical perspective on illustration art from the mid-19th century to the present. Upon completion of the course, students will be able to plan and execute a copy illustration, choosing the style, medium, and color scheme that most effectively illustrates the copy. *Prerequisite: Art 107, 201 and 207 or (Art 107, 207 and permission). Offered alternate years.*

**258 Introduction to Computer Graphics (3)**

An introduction to various software design programs and their applications to modern business design, including web design. Students will submit a portfolio of finished, printed works for evaluation. *Prerequisite: Art 107.*

**270 Design Applications (3)**

The application of graphic design principles to problems of advertising and product packaging. The course provides a basic orientation to methods and materials of commercial art. *Prerequisite: Art major or Art 107, 201, and 207. Offered alternate years.*

**271, 371, 471 Selected Topics (1-3) (1-3) (1-3)**

An investigation of topics not offered in other courses, selected on the basis of student interest and available instruction.

**290, 390, 490 Directed Study (1-3) (1-3) (1-3)**

An opportunity for supervised, independent study of a particular topic based on the interest of the student and the availability and approval of the faculty.

**301-302 Painting (3) (3)**

Advanced studio work for art majors with attention given to problems of presentation and exhibition of paintings. *Prerequisite: Art 201-202.*

**303 Graphic Design I (3)**

A course emphasizing the use of digital media in advertising, publications, and corporate communications. Upon completion of the course, students will understand how a computer and its devices work and will have a basic knowledge of various software products used in graphic design. *Prerequisite: Art 258.*

**304 Graphic Design II (3)**

A course emphasizing the application of graphic design principles and relevant software programs to web design, with attention to the incorporation of audio and animation as design elements. Finished production will be submitted on a disk portfolio for evaluation. *Prerequisite: Art 303.*

**307 Drawing (3)**

Advanced drawing for art majors with special emphasis given to maturing compositional concepts. *Prerequisite: Art 207.*

**310 Art in Secondary Schools: 7-8 (1)**

An exploration of curriculum development for the middle grades learner. Students will gain an understanding of the foundations of art education; plan, organize, deliver, and assess an art education program; study methodology for integrating art with other content areas; and explore and implement safe instructional practices and safety standards for the teaching of art. *Prerequisite: Art major or permission.*

**311-312 Printmaking (3) (3)**

Advanced work with emphasis given to problems of color. *Prerequisite: Art 211-212. Offered alternate years.*

**315 Art in Secondary Schools: 9-10 (1)**

An exploration of curriculum development for the 9<sup>th</sup> and 10<sup>th</sup> grade classrooms. Students will gain an understanding of the foundations of art education; plan, organize, deliver, and assess an art education program; study methodology for integrating art with other content areas; and explore and implement safe instructional practices and safety standards for the teaching of art. *Prerequisite: Art major or permission.*

**320 Art in Secondary Schools: 11-12 (1)**

An exploration of curriculum development for the secondary classroom. Students will gain an understanding of the foundations of art education; plan, organize, deliver, and assess an art education program; study methodology for integrating art with other content areas; and explore and implement safe instructional practices and safety standards for the teaching of art. *Prerequisite: Art major or permission.*

**321-322 Ceramics (2-3) (2-3)**

Advanced work in ceramics with emphasis on challenges of glazing. *Prerequisite: Art 221-222.*

**325 Art in Secondary Schools (2)**

A seminar and studio for art majors seeking certification to teach art in the public schools (K-12). Emphasis is placed on the use of various materials and techniques including drawing and painting, printing, ceramics and fiber arts, photographic projects, and three-dimensional art. The course explores curriculum development for the K-12 classroom. Students will gain an understanding of the foundations of art education; plan, organize, deliver, and assess an art education program; study methodology for integrating art with other content areas; and explore and implement safe instructional practices and safety standards for the teaching of art. *Prerequisite: Art 310, 315, 320 and enrolled in professional term, or permission.*

**326 Art in Elementary Schools (3)**

A foundation of art education course exploring problems related to the teaching of art in the elementary (including early childhood K-3) and middle grades, emphasizing various materials and techniques, including fiber art, photography projects, printing, drawing and painting, and three-dimensional art. *Prerequisite: Elementary Education major and enrolled in professional term.*

**357 Illustration II**

A course exploring the creative interaction between visual imagery and texts through projects in black and white, as well as color, using various traditional and digital media. Students will submit a portfolio of work for evaluation. *Prerequisite: Art 256.*

**358 Arts, Issues, and Controversies (3)**

The study of the interplay within the arts and the role they play in ideology, politics, propaganda, and moral issues. Consideration is given to issues of patronage, advertising, eroticism and pornography, religion, and the visual images of popular culture. Students will be able to articulate the role of the visual arts in society and relate how images serve and challenge dominant human institutions. *Prerequisite: Junior standing or three previous credits in Art History. Offered alternate spring terms.*

**401-402 Painting (3) (3)**

Advanced studio work for art majors with attention given to problems of presentation and exhibition of paintings. *Prerequisite: Art 301-302.*

**403 Graphic Design III (3)**

An emphasis on the application of graphic design principles and relevant software programs to animation, multi-media, and interactive visuals. Students learn the relationships between traditional cell animation and computer animation and develop technical skills to integrate media into animated imagery. Finished productions will be saved in a disk portfolio for evaluation. *Prerequisite: Art 304.*

**404 Advanced Graphic Design Studio (3)**

The creative exploration of digital and traditional media in accordance with the individual student's long-term goals and interests. Advertising, game design, website design, "fine arts" applications, illustration, book design, and animation are among the options for student exploration. Finished works will be saved in a disk portfolio for evaluation. *Prerequisite: Art 403.*

**407 Advanced Drawing (3)**

Continued exploration of drawing problems with emphasis on developing a mature command of drawing techniques in a specialized medium. *Prerequisite: Art 307.*

## **Astronomy (AST)**

**Associate Professor Plano Clark**

**103 Introductory Astronomy (3)**

A study of the structure and evolution of the universe with emphasis on the solar system, stellar evolution, galaxies, cosmology, and planetary systems.

**103L Astronomy Laboratory (1)**

An optional laboratory accompanying Astronomy 103. The laboratory work includes telescope operations and viewing, and laboratory experiments illustrating the physical principles of astronomy. Must be concurrently enrolled in Astronomy 103.

## **Biology (BIO)**

**Professor Georgi**

**Associate Professor Clement**

**Associate Professor Soucek**

**Assistant Professor Marley**

**Assistant Professor Tallman**

**Instructor Ebmeier**

**Adjunct Professor Muckel**

**Adjunct Instructor Coe**

**Visiting Assistant Professor Ryter**

### **Requirements for the Biology Major:**

Complete 1 or 2.

1. Students not seeking certification for public school teaching of biology will complete the following:
  - a. Biology 101, 201, 206, 208, 252, 295, 351, 495, 496.
  - b. One course from each of the following groups plus one additional course from any group:
    - 1) Biology 215, 216, 307, 308, 321, 322.
    - 2) Biology 302, 310, 337, 342, 353.
    - 3) Biology 205, 207, 315, 317, 331, 335, 412.