

**Descriptions — Art  
of  
Courses**

**449. Advanced Metalsmithing**  
Fall, Winter, Spring. 2 to 6 credits.  
May reenroll for a maximum of 35 credits. STA 249, STA 349 or approval of department.  
Hollow form emphasized. Smithing including raising, forging, and Masonite die. Additional specialized techniques such as resins, enamels, electro forming, and tool making. Individual development emphasized.

**450W. Art Workshop**  
Summer. 1 to 6 credits. May reenroll for a maximum of 15 credits. Approval of department.  
Specific sessions of short duration (one to three weeks) permitting a concentrated experience in one area of interest within the general studio spectrum.

**455. Advanced Painting**  
(STA 435.) Fall, Winter, Spring. 3 to 5 credits. May reenroll for a maximum of 15 credits. STA 355, STA 356, STA 357 plus 2 additional credits in STA 355 or STA 356 or STA 357.  
Advanced work with increased supervised independent study opportunities.

**800. Studio Problems**  
Fall, Winter, Spring, Summer. 1 to 12 credits. May reenroll for a maximum of 24 credits.  
Studio problems in drawing, painting, print-making, graphic design, industrial design, interior design, advertising design, sculpture-carving, sculpture-direct metal, ceramics.

**801. Painting**  
Fall, Winter, Spring, Summer. 3 to 12 credits.  
Advanced work in a variety of painting media with strong emphasis on independent development.

**802. Drawing**  
Fall, Winter, Spring, Summer. 3 to 12 credits.  
Advanced work in drawing employing a variety of media and calculated to contribute to development in related areas of art practice.

**803. Sculpture**  
Fall, Winter, Spring, Summer. 3 to 12 credits.  
Advanced work in a variety of three dimensional media with strong emphasis on individual development.

**804. Ceramics**  
Fall, Winter, Spring, Summer. 3 to 12 credits.  
Advanced work in pottery involving a variety of experiences and leading to independent development.

**806. Graphic Design**  
Fall, Winter, Spring, Summer. 3 to 12 credits.  
Advanced work in all phases of the area of graphic design leading to independent development.

**807. Industrial Design**  
Fall, Winter, Spring, Summer. 3 to 12 credits.  
Advanced study in the areas of design analysis and product development with emphasis on continued independent development.

**809. Etching**  
Fall, Winter, Spring, Summer. 3 to 12 credits.  
Work in etching leading to expressive independent development.

**810. Lithography**  
Fall, Winter, Spring, Summer. 3 to 12 credits.  
Work in lithographic techniques leading to expressive independent development.

**816. Issues in Contemporary Art**  
Fall. 3(3-0) Graduate students or approval of instructor.  
Impact of technology, new media, exploitation and exhaustion of current styles, new sources of patronage, political control; implications of art systems replacing object art explored in seminars with staff.

**820. Problems in Art Education**  
Fall, Winter, Spring, Summer. 1 to 5 credits. May reenroll for a maximum of 10 credits. Contract from department required prior to registration.

**821. Art Instructional Media Laboratory I—Multi-Media**  
Fall, Winter, Spring, Summer. 4(1-9) May reenroll for a maximum of 8 credits. Approval of department.  
Investigation of multi-media techniques as media of artistic expression and communication for application to art education or related fields.

**822. Art Instructional Media Laboratory II—Television**  
Fall, Winter, Spring, Summer. 4(1-9) May reenroll for a maximum of 8 credits. Approval of department. Interdepartmental with the Department of Telecommunication.  
Analysis of teaching video tapes and television programs in art. Utilization of television as a medium of artistic expression and communication for application to art education or related fields.

**825. Seminar in Art Education**  
Fall, Winter, Spring, Summer. 2 to 4 credits. May reenroll for a maximum of 8 credits. Approval of department.  
Examination and discussion of contemporary thought in the field of art education. Current problems examined within an interdisciplinary framework.

**826. Critical Theory and Aesthetic Experience in Art Education**  
Fall, Winter, Spring, Summer. 3(3-0) May reenroll for a maximum of 9 credits if different topics are taken. Approval of department.  
Theories of art criticism and aesthetic experience. Organization of these concepts for application to art education programs or related fields.

**827. Curriculum Design for Art Education**  
Fall, Winter, Spring, Summer. 3(3-0) May reenroll for a maximum of 9 credits if different topics are taken. Approval of department.  
Factors affecting art curriculum; analysis, preparation and evaluation.

**828. Research Methods for Art Education**  
Fall, Winter, Spring, Summer. 3(3-0) May reenroll for a maximum of 9 credits if different topics are taken. Approval of department.  
Orientation to research; designs and methodologies applicable to the study of problems in art education.

**840. Teaching Seminar—Art Practice**  
Fall, Winter, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 6 credits. Approval of department.  
Supervised teaching of college classes in art practice.

**899. Master's Thesis Research**  
Fall, Winter, Spring. Variable credit. May reenroll for a maximum of 12 credits. Approval of department.

**ARTS AND LETTERS A L**

**College of Arts and Letters**

**130. The First Americans: An Introduction to the Native American Experience**  
(RES 130.) Fall, Spring. 4(4-0)  
Overview of Native American cultures and experiences from pre-European to contemporary times.

**210. Film: An Introduction**  
Fall, Winter, Spring. 4(2-4)  
An interdisciplinary examination of film, to enhance the student's knowledge and appreciation of the film experience by focusing on theory, practice, history, social meaning, and criticism.

**232. American Humor**  
(ATL 232.) Winter. 4(4-0) Sophomores.  
An interdisciplinary study of the relationship between American humor and the developing American experience, especially of the nineteenth and twentieth centuries.

**IDC. Introduction to Women's Studies: Women's Consciousness**  
For course description, see Interdisciplinary Courses.

**310. American Film**  
(ATL 350.) Fall, Winter, Spring. 4(2-4) May reenroll for a maximum of 8 credits if different topic is taken. Sophomores.  
American films as they reflect and influence society.

**311. Great Cities, Arts, and Ideas: The Western Classical Age (A)**  
(HUM 311.) Fall. 4(4-0) Sophomores.  
The humanities in an urban culture during the Western classical age. Major ideas and works of art and literature, their significance in the city's life, and their continuing influence. Cities will be Athens or Rome.

**312. Great Cities, Arts, and Ideas: The Renaissance (A)**  
(HUM 312.) Winter. 4(4-0) Sophomores.  
The humanities in an urban culture during the Renaissance. Major ideas and works of art and literature, their significance in the city's life, and their continuing influence. Cities will be Florence, Rome, or Paris.

- 313. Great Cities, Arts, and Ideas: The Modern World (A)**  
(HUM 313.) Spring. 4(4-0) Sophomores.

The humanities in an urban culture during the modern era. Major ideas, works of art and literature; their significance in the life of an important world capital during the 18th, 19th, or 20th century.

- 332. Development of American Indians as an Ethnic Minority**  
(RES 313.) Spring. 4(4-0) Approval of college.

The history of the contact between Euro-Americans and American Indians is examined from the perspective of Native Americans.

- 333. Contemporary Problems of American Indians**  
(RES 333.) Spring. 4(4-0) A L 332.

An overview of contemporary American Indian problems including their background in federal policies, protests engendered, and possible solutions.

- 345. Jewish Humanities in the Twentieth Century (A)**  
(HUM 345.) Fall, Winter, Spring. 4(4-0) Sophomores. Previous studies in the humanities recommended.

An interdisciplinary study of the novel, short story, drama, music, film, and arts of the Twentieth Century as they have reflected the experiences, preoccupations, and contributions of the Jews.

- 390H. Perspectives in Literature**  
Fall. 3(3-0) Juniors, approval of Honors College.

Attention will be focused on several major literary works. Students will employ various types of literary analysis, considering theme, idea, structure, etc., and examining some major trends in contemporary literary criticism.

- 391H. Perspectives in Philosophy**  
Winter. 3(3-0) Juniors, approval of Honors College.

The two primary areas of concern will be ethics and aesthetics, the emphasis on one or the other to be determined by the professor. The course will include reading of major works, discussion of major figures in the fields, and the preparation of a substantial paper.

- 392H. Perspectives in History**  
Spring. 3(3-0) Juniors, approval of Honors College.

The focus will be on the nature of international diplomacy in the 20th century, the development of nationalism, the balance of power system, the influence of new ideologies, and the developments of the power structure since 1945.

- 393H. Perspectives in 20th Century Arts: 1900-1920**

Fall. 3(3-0) Juniors, approval of Honors College.

Reaction to Naturalism across the arts traced in Symbolism and Expressionism as interrelated phenomena in response to the crisis of confidence in European institutions.

- 394H. Perspectives in 20th Century Arts: 1920-1945**

Winter. 3(3-0) Juniors, approval of Honors College.

Formalist analysis of art elements examined across the arts in Cubism, Surrealism and new musical structures as positive response to war, depression and dictatorship.

- 395H. Perspectives in Contemporary Arts: Postwar Period**  
Spring. 3(3-0) Juniors, approval of Honors College.

The function of avant-garde arts after World War II to the present studied in the new dimensions of an environment created by new technology and the mass media explosion.

- IDC. Women's Studies Senior Level Seminar**  
For course description, see Interdisciplinary Courses.

- 450. Arts Management**  
Fall, Winter, Spring. 3 to 5 credits. May reenroll for a maximum of 9 credits. Seniors or Graduate Students or approval of department.

Administration of arts organizations, management of facilities, understanding operational methods and procedures of performing companies, financial structure and funding of arts centers, study of audience development, contemporary trends in arts management field.

- 461. Aging and Human Values**  
Spring. 3(3-0) Juniors.

Development of personal and professional responses to value-laden questions concerning aging and the elderly through historical, literary, philosophical and related perspectives.

- 491H. Perspectives in the Social Sciences and Humanities**

Fall, Winter, Spring. 2 to 6 credits. May reenroll for a maximum of 12 credits if different topic is taken. Juniors, approval of Honors College, or approval of instructor. Interdepartmental with the College of Social Science.

An integration of subject matter and methodologies of several disciplines as they are relevant to particular topic areas.

- 492. Integrative Topics in the Arts and Humanities**  
Fall, Winter, Spring. 4(4-0) May reenroll for a maximum of 8 credits. Juniors or approval of department.

In-depth study of topics in the arts and humanities. Integrative and interdisciplinary approach.

- 499. Arts and Letters Internship**  
Fall, Winter, Spring, Summer. 1 to 10 credits. May reenroll for a maximum of 10 credits. Juniors, 3.00 GPA, approval of instructor. Supervised pre-professional field experience for juniors, seniors, or graduate students.

- 999. Doctoral Dissertation Research**  
Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 36 credits. Approval of college.

## **ASTRONOMY AND ASTROPHYSICS**

See Physics and Astronomy.

## **AUDIOLOGY AND SPEECH SCIENCES ASC**

### **College of Communication Arts and Sciences**

- 108. Voice and Articulation**  
Fall, Winter, Spring, Summer. 3(4-0)

The study and development of the skills of voice and articulation.

- 201. Introduction to Communication Disorders**  
(372.) Fall, Winter. 3(3-0)

Speech, hearing and language disorders in adults and children.

- 222. Oral Language Development**  
Fall, Winter, Spring, Summer. 3(3-0)

Emergence and development of receptive and expressive aspects of oral language of the child.

- 227. Physics for Audiology and Speech Sciences**

Fall, Spring. 4(4-0) MTH 108. Not open to students with credit in PHY 237. Interdepartmental with and administered by Physics. Introductory physics for Audiology and Speech Sciences majors: kinematics, Newtons' Law, conservation of energy and momentum, waves and vibrations, sound propagation, resonance, speech production.

- 274. Structures and Functions of Speech and Hearing Mechanisms**

Fall, Winter. 5(4-2) ASC 108 or approval of department.

Peripheral and central auditory mechanisms and the respiratory, phonatory and articulatory mechanisms for speech.

- 276. Descriptive Phonetics**  
Winter, Spring. 3(3-0) ASC 274 or approval of department.

Detailed description of the principles that underlie the production of speech sounds.

- 277. Speech Science**  
Fall, Spring. 3(3-0) ASC 274, ASC 276.

Scientific bases of voice communication with special reference to the acoustic aspect of production.

- 373. Clinical Procedures in Speech Pathology and Audiology**

Winter, Spring. 4(4-0) 2.00 grade-point average in ASC 201 and ASC 277 or approval of department.

Principles underlying the clinical interview and client relationships essential to diagnosis and therapy. Procedures in obtaining, recording, and evaluating test results and therapeutic methods.

- 444. Oral Language of Urban Areas**  
Winter, Summer. 3(3-0)

Concentration in the characteristics of language and human communication as these relate to studies and practices of those involved in urban affairs.

- 445. Communication Disorders: Social and Emotional Components**  
Spring. 3(3-0) Juniors.

Analysis and management of the social and emotional components of speech, language, and hearing problems.