424B. Advanced Graphic Design
(ART 424, ART 424B.) Winter. 3 to 10 credits. 424A.
Advanced problem solving involving existing media of graphic expression. Study of graphic equivalents of literal images and ideas in the creation of posters, trademarks and magazine and book covers.

424C. Advanced Graphic Design
(ART 424, ART 424C.) Spring. 5 to 10 credits. 424B.
Graphic design workshop. Advanced study of type faces, paper, light-sensitive materials, etc. Major emphasis on individual independent study.

428. Advanced Sculpture
(ART 428.) Fall, Winter, Spring. Summer. 2 to 10 credits. May re-enroll for a maximum of 35 credits. 335.
Continuation of 328. Problems in carving, modeling, casting in wax, clay, plaster, direct metal, etc.

431. Advanced Ceramics
(ART 431.) Fall, Winter, Spring. Summer. 5 to 10 credits. May re-enroll for a maximum of 35 credits. 341.
Continuation of 341 with increased opportunity for supervised individual study.

433. Advanced Composition and Painting
(ART 433.) Summer. 3 to 6 credits. May enroll for credit. 333, 335 or approval of department.
Continuation of 333 or 335 with increased opportunity for supervised independent development.

435. Advanced Painting
(ART 435.) Fall, Winter, Spring. Summer. 3 to 10 credits. May re-enroll for a maximum of 30 credits. 340, 355.
Continuation of 344 with increased opportunity for supervised independent development.

440. Special Problems
(ART 440.) Fall, Winter, Spring. Summer. 2 to 5 credits. Approval of department.
Advanced work developed from special interest areas.

444. Industrial Design II
(ART 444.) Fall, Winter, Spring. Summer. 3 to 10 credits. May re-enroll for a maximum of 35 credits. 344, approval of department.
Continuation of 344 with a broader choice of projects in industrial design and increased emphasis on independent development.

449. Advanced Jewelry
(ART 449.) Fall, Winter, Spring. Summer. 1 to 6 credits. May re-enroll for a maximum of 12 credits. 391, approval of department.
Continuation of 391 with augmented opportunities for independent development and additional techniques.

800. Studio Problems
(ART 800.) Fall, Winter, Spring. Summer. 1 to 6 credits.
Studio problems in drawing, painting, printmaking, graphic design, industrial design, interior design, advertising design, sculpture, ceramics, sculpture-direct metal, etc.

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

802. Drawing
(ART 802.) Fall, Winter, Spring. Summer. 3 to 12 credits. 801.
Advanced work in drawing employing a variety of media and calculated to contribute to development in related areas of art practice.

803. Sculpture
(ART 803.) Fall, Winter, Spring. Summer. 3 to 12 credits. 802.
Advanced work in sculpture involving a variety of media and calculated to contribute to development in related areas of art practice.

804. Ceramics
(ART 804.) Fall, Winter, Spring. Summer. 3 to 12 credits. 803.
Advanced work in pottery involving a variety of experience and leading to independent development.

805. Serigraphy
(ART 805.) Fall, Winter, Spring. Summer. 3 to 12 credits. 804.
Work in serigraphy leading to independent development.

807. Industrial Design
(ART 807.) Fall, Winter, Spring. Summer. 3 to 12 credits. 806.
Advanced study in the areas of design analysis and product development with emphasis on continued independent development.

809. Crafts
(ART 809.) Fall, Winter, Spring. Summer. 3 to 12 credits. 808.
Advanced work in jewelry and metal, and other related areas leading to continued independent development.

809H. Perspectives in Crafts
Spring. 4(3-0) Juniors, approval of the 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 field, and the preparation of a substantial paper.

840. Teaching Seminar—Art Practice
(ART 840.) Fall, Winter, Spring. Summer. 1 to 3 credits. May re-enroll for a maximum of 9 credits. Approval of department.
Supervised teaching of college classes in art practice.

899. Research
(ART 899.) Fall, Winter, Spring. Variable credit. May re-enroll for a maximum of 12 credits. Approval of department.

ARTS AND LETTERS

College of College of Arts and Letters

390H. Perspectives in Literature
Fall. 4(3-0) Juniors, approval of the 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. 4(3-0) Juniors, approval of the 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 field, and the preparation of a substantial paper.

392H. Perspectives in History
Spring. 4(3-0) Juniors, approval of the 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 development of the power structure since 1945.

ASTRONOMY

College of Natural Science

119. General Astronomy
Fall, Winter, Spring. Summer. 4(4-0)
Not open to engineering or physical science majors or minors.
Physical nature of solar system, star clusters, and galaxies as seen by modern astronomers. Limited opportunity for astronomical observations.

217. General Astronomy
Fall, Winter, Spring. 4(4-0) MTH 102.
Not open to engineering or physical science majors or minors.
Descriptive course intended primarily for physical science majors. A semi-quantitative discussion of time, telescopes, the solar system, stars, clusters of stars, galaxies, and cosmology. Limited opportunity for astronomical observations.

327. Practical Astronomy
Fall. 3(3-0) 217, MTH 113.