



COLLEGE OF LETTERS & SCIENCES OFFERINGS

PHYSICS AND ASTRONOMY COURSES

PHYSICS COURSES (800)

800-503 Microprocessor Laboratory -- 2 cr

Laboratory experience in microprocessor addressing, digital logic circuits, microcomputer input and output techniques, digital to analog and analog to digital interfacing and device control by microcomputers. This course will not satisfy the laboratory work requirements for the physics major; the credit will count toward the major.

Prereq: 800-175 (or 800-163) and 765-171; or concurrent registration in 765-302/502; or graduate standing with computer programming experience.

800-610 Modern Physics I -- 3 cr

A study of twentieth century physics. Topics covered include relativity, elementary quantum physics, atomic structure, elementary nuclear physics and fundamental particles. Three one-hour lectures per week.

Prereq: 800-174, 800-175 or 800-162, 800-163 and 760-254.

800-611 Modern Physics Laboratory I -- 1 cr

A laboratory course in modern physics. The experiments performed in this course complement the lectures of Modern Physics I. It is recommended that this course be taken concurrently with Modern Physics I. One two-hour laboratory per week.

Prereq: 800-410/610 or concurrent registration or consent of instructor.

800-612 Modern Physics II -- 3 cr

A continuation of Modern Physics I. Topics covered include statistical mechanics, atomic and molecular spectra, x-ray spectra, physics of the solid state and nuclear physics. Three one-hour lectures per week.

Prereq: 800-410/610.

800-690 Workshop -- 1-8 cr

800-691 Travel Study -- 1-3 cr

800-694 Seminar -- 1 cr

800-696 Special Studies -- 1-3 cr

Prereq: Consent of the instructor.

800-790 Workshop -- 1-6 cr

800-794 Seminar -- 1-3 cr

800-796 Special Studies -- 1-3 cr

800-798 Individual Studies -- 1-3 cr

800-799 Thesis Research -- 1-6 cr

Students must complete a Thesis Proposal Form in the Graduate Studies Office before registering for this course.

ASTRONOMY COURSES (805)

805-550 Astrophotography For The Amateur -- 3 cr

This course is designed for people interested in combining astronomy with photography through the media of telescope and camera. Techniques for photographing astronomical objects are presented in an activity-oriented format. Computer scanning of slide images and darkroom procedures for processing prints are also included. One two-hour lecture and one two-hour laboratory per week.

Prereq: Consent of instructor.

805-630 Astronomy For Teachers -- 3 cr

An individualized course intended for teachers with limited astronomy background. Subject matter covered will depend on the needs and interests of the student. Each student does an experimental or observational project which is presented at the end of the course as a paper in a seminar.

Prereq: Enrollment in this course is limited to those persons teaching at the K-12 grade levels or consent of the instructor.

805-690 Workshop -- 1-5 cr

805-798 Individual Studies -- 1-3 cr