Physics and Astronomy
Courses (PHYSCS, ASTRONMY)

Contact:
Physics Department
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PHYSICS COURSES (PHYSCS)

PHYSCS 503
Microprocessor Laboratory 2 u
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: PHYSCS 175 (or PHYSCS 163) and COMPSCI 171; or concurrent registration in COMPSCI
302/502; or graduate standing with computer programming experience; or consent of instructor.

PHYSCS 610
Modern Physics I 3 u
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: PHYSCS 174, PHYSCS 175 or PHYSCS 162, PHYSCS 163 and MATH 254.

PHYSCS 611
Modern Physics Laboratory I 1 u
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: PHYSCS 410/610 or concurrent registration or consent of instructor.

PHYSCS 612
Modern Physics II 3 u
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: PHYSCS 410/610.
PHYSICS 690  
Workshop 1-8 u

PHYSICS 691  
Travel Study 1-3 u

PHYSICS 694  
Seminar 1 u

PHYSICS 696  
Special Studies 1-3 u  
Prereq: Consent of the instructor.

PHYSICS 790  
Workshop 1-6 u

PHYSICS 794  
Seminar 1-3 u

PHYSICS 796  
Special Studies 1-3 u

PHYSICS 798  
Individual Studies 1-3 u

PHYSICS 799  
Thesis Research 1-6 u  
Students must complete a Thesis Proposal Form in the Graduate Studies Office before registering for this course.

ASTRONOMY COURSES (ASTRONOMY)

ASTRONOMY 630  
Astronomy For Teachers 3 u  
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 teaching at the K-12 grade levels or consent of the instructor.

ASTRONOMY 690  
Workshop 1-5 u
ASTRONOMY 798
Individual Studies 1-3 u