

# Physics and Astronomy Courses

## (PHYSCS, ASTRONMY)

### Contact:

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## PHYSICS (PHYSCS)

### 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.

### PHYSCS 690

#### Workshop 1-8 u

### PHYSCS 691

#### Travel Study 1-3 u

### PHYSCS 694

#### Seminar 1 u

### PHYSCS 696

**Special Studies 1-3 u**

Prereq: Consent of the instructor.

PHYSCS 790

**Workshop 1-6 u**

PHYSCS 794

**Seminar 1-3 u**

PHYSCS 796

**Special Studies 1-3 u**

PHYSCS 798

**Individual Studies 1-3 u**

PHYSCS 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 (ASTRONMY)**

ASTRONMY 690

**Workshop 1-5 u**

ASTRONMY 798

**Individual Studies 1-3 u**