

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