

Physics and Astronomy Major Course Offerings, organized by Semester, as of Fall Semester, 2015

Courses marked with * are core courses required for all concentrations in the Physics Major (26 hours). An additional 12 hours of courses from 300-400 level physics and/or 200-400 level astronomy are required for all concentrations, and unless another concentration is elected, constitute a General Concentration. Courses marked with † are additional courses required for the Academic Concentration. Courses marked with ‡ are additional courses required for the Astronomy Concentration. Astronomy concentration required courses are normally offered every other year; Astronomy concentration students should plan accordingly. Consult with an advisor for details (see below).

For all courses, read catalog descriptions for prerequisites, corequisites, and other possible restrictions.

<i>Courses normally offered Fall Semester</i>	<i>Courses normally offered Spring Semester</i>
‡Astronomy 217 (Honors Intro. Astronomy I, 4 hrs) ‡Astronomy 411 (Stellar Structure and Evolution, 3 hrs) *Physics 250 (Modern Physics, 4 hrs) *Physics 311 (Mechanics I, 3 hrs) Physics 341 (Intro to Nuclear Physics, 3 hrs) *Physics 361 (Electronics Lab, 3 hrs) *Physics 411 (Quantum Mechanics I, 3 hrs) *Physics 431 (Electricity and Magnetism I, 3 hrs) *Physics 461 (Modern Physics Lab, 3 hrs)	‡Astronomy 218 (Honors Intro. Astronomy II) ‡Astronomy 421 (Gen'l Relativity,...,Cosmology, 3 hrs) *Physics 321 (Thermal Physics, 3 hrs) †Physics 312 (Mechanics II, 3 hrs) Physics 342 (Structure of Matter, 3 hrs) Physics 405 (Science, Technology, and Public Policy, 3 hrs) †Physics 412 (Quantum Mechanics II, 3 hrs) †Physics 432 (Electricity and Magnetism II, 3 hrs) *Physics 421 (Modern Optics w/Lab, 4 hrs) †Physics 451 (A Survey of Contemporary Physics, 3 hrs) *Physics 461 (Modern Physics Lab, 3 hrs)

The following courses are available both Fall and Spring Semesters with the consent of an instructor:

Astronomy 490 (Special Topics in Astronomy, 3 hrs)
Physics 490 (Senior Seminar, 1 to 3 hrs)
Physics 491 (Foreign Study, 3 to 15 hrs)
Physics 492 (Off-campus Study, 3 to 15 hrs)
Physics 493 (Research and Independent Study, 1 to 3 hrs)
Physics 494 (Special Topics in Physics, 1 to 3 hrs)
Physics 498 (Honors Thesis in Physics, 3 hrs)

Upper Division Astronomy courses:

Astronomy concentration students who were unable to schedule required upper division Astronomy courses (Astronomy 411, 421) but need them to graduate in a timely fashion may be able to arrange to take a suitable graduate level course or courses with lesser requirements/expectations as a substitute (Physics 615, 616). Consult with Dr. Mike Guidry for specifics.

Pre-Med students wishing to major in Physics should consider a General Concentration. Some upper-level chemistry courses may be possible to count toward physics elective hours by petition.