ASTRONOMY (ASTR)

Courses

ASTR 1400. Exploring the Cosmos w/lab. 0 or 4 Credits.
Introduction to the basic concepts of astronomy as well as the history of their development. Includes a laboratory component. May not be taken for credit concurrently with, or following receipt of, credit for ASTR 1405. Catamount Core: N2, QD.

ASTR 1405. Exploring the Cosmos. 3 Credits.
Introduction to the basic concepts of astronomy as well as the history of their development. No laboratory. May not be taken for credit concurrently with, or following receipt of, credit for ASTR 1400. Catamount Core: N1, QD.

ASTR 1990. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

ASTR 2100. The Big Bang. 3 Credits.
Ancient cosmologies, beginning of time, origin of matter, cosmic background radiation, antimatter and dark matter, the expanding universe and origin of structure. Prerequisites: ASTR 1405; MATH 1034 or equivalent.

ASTR 2120. Spacecraft Astronomy. 3 Credits.
Survey of recent astronomical satellites such as Hubble, Chandra and Fermi LAT; their design, orbital characteristics, and findings. Prerequisites: ASTR 1405; MATH 1034 or equivalent.

ASTR 2140. Stars & Galaxies. 3 Credits.
Instruments and observations. Stars and their evolution. Black holes and compact objects. The interstellar medium. Relativity and galactic structure and galaxy formation. Prerequisites: ASTR 1405; MATH 1034 or equivalent.

ASTR 2160. Moons & Planets. 3 Credits.

ASTR 2990. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

ASTR 2993. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

ASTR 2995. Undergraduate Research. 1-18 Credits.
Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

ASTR 2990. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

ASTR 3991. Internship. 1-18 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

ASTR 3993. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

ASTR 3994. Teaching Assistantship. 1-3 Credits.
Undergraduate student service as a teaching assistant, usually in an introductory-level course in the discipline, for which credit is awarded. Offered at department discretion.

ASTR 3995. Undergraduate Research. 1-18 Credits.
Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

ASTR 3990. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

ASTR 4994. Teaching Assistantship. 1-3 Credits.
Undergraduate student service as a teaching assistant, usually in an introductory level course in the discipline, for which credit is awarded. Offered at department discretion.