ASTRONOMY (ASTR)

ASTR 131N - Planetary Astronomy. 3 Credits.
Offered autumn. Prereq., high school algebra and geometry. An introduction to observational, historical, and planetary astronomy. Students will have a chance to visit UM’s state-of-the-art planetarium and observe with our 0.4 meter telescope.
Gen Ed Attributes: Natural Science

ASTR 132N - Stars, Galaxies, and the Universe. 3 Credits.
Offered spring. Prereq., high school algebra and geometry. An introduction to stars, stellar evolution, galaxies, and cosmology. Students will have a chance to visit UM’s state-of-the-art planetarium and observe with our 0.4 meter telescope.
Gen Ed Attributes: Natural Science

ASTR 134N - Planetary Astronomy Lab. 1 Credit.
Offered autumn. Prereq. or coreq., ASTR 131N Laboratory exercises in observational and planetary astronomy. Students will have a chance to visit UM’s state-of-the-art planetarium and observe with our 0.4 meter telescope. Gen Ed Attributes: Natural Science Lab Course (N)
Gen Ed Attributes: Natural Science Lab Course, Natural Science

ASTR 135N - Stars, Galaxies, and the Universe Lab. 1 Credit.
Offered spring. Prereq. or coreq., ASTR 132N. Laboratory exercises in observational, stellar, and galactic astronomy. Students will have a chance to visit UM’s state-of-the-art planetarium and observe with our 0.4 meter telescope. Gen Ed Attributes: Natural Science Lab Course (N)
Gen Ed Attributes: Natural Science Lab Course, Natural Science

ASTR 142N - The Evolving Universe. 4 Credits.
Offered spring. Prereq., working knowledge of precalculus (ie., college algebra and college trigonometry). Overview of recent developments in planetary system formation, stars, galaxies, and cosmology. Some astronomical observing required outside of normal class hours. Gen Ed Attributes: Natural Science Lab Course (N)
Gen Ed Attributes: Natural Science Lab Course, Natural Science

ASTR 191 - Special Topics. 1-6 Credits.
(R-6) Offered intermittently. Experimental offerings of new courses, or one-time offerings of current topics.

ASTR 198 - Internship. 1-6 Credits.
(R-6) Offered intermittently. Prereq., consent of department. Extended classroom experience which provides practical application of classroom learning during placements off campus. Prior approval must be obtained from the faculty supervisor and the Internship Services office. A maximum of 6 credits of Internship (198, 298, 398, 498) may count toward graduation.

ASTR 292 - Independent Study. 1-6 Credits.
Course material appropriate to the needs and objectives of the individual student.

ASTR 351 - Planetary Science. 3 Credits.
Offered autumn even-numbered years. Prereq., PHSX 215N - PHSX 216N or PHSX 205N - PHSX 206N and M 162 or M 171. Physical and geological characteristics of planets, satellites, asteroids, comets, and meteoroids, with an emphasis on comparative planetology.