

ASTRONOMY (ASTRON)

Astronomy Courses

ASTRON 103 Survey of Astronomy

3 cr. Undergraduate.

History of astronomy; planets; stellar evolution, nucleosynthesis; death of stars: white dwarfs, neutron stars, black holes; galaxies and quasars; expansion of the universe, dark matter; the big bang.

Prerequisites: math placement level 10.

General Education Requirements: NS

Last Taught: Spring 2025, Fall 2024, Spring 2024, Fall 2023.

Current Offerings: <https://catalog.uwm.edu/course-search/>

ASTRON 104 Astronomy Laboratory

1 cr. Undergraduate.

Observations of planets, stars, stellar clusters, and galaxies; related experiments. Correlated with Astron 103.

Prerequisites: Astron 103(C) or Astron 211(C).

General Education Requirements: NS+

Last Taught: Spring 2025, Fall 2024, Spring 2024, Fall 2023.

Current Offerings: <https://catalog.uwm.edu/course-search/>

ASTRON 175 Cosmic Origins

3 cr. Undergraduate.

The science of life in the universe. Our cosmic origins in the Big Bang and stars, the origin and evolution of life on Earth, searching for life elsewhere in the solar system and on exoplanets.

Prerequisites: math placement level 10.

General Education Requirements: NS+

Last Taught: Fall 2024, Fall 2023, Fall 1995, Fall 1993.

Current Offerings: <https://catalog.uwm.edu/course-search/>

ASTRON 185 Astronomy for Pre-Education Majors

3 cr. Undergraduate.

Space: how we know and what we know; the solar system, stars, galaxies, and the universe. 2 hrs lec, lab.

Prerequisites: none.

General Education Requirements: NS+

Last Taught: Spring 2025, Spring 2024, Spring 2023, Spring 2022.

Current Offerings: <https://catalog.uwm.edu/course-search/>

ASTRON 194 First-Year Seminar.

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

Prerequisites: none.

Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

General Education Requirements: NS

Last Taught: Spring 2006, Fall 2001, Spring 2001, Fall 2000.

Current Offerings: <https://catalog.uwm.edu/course-search/>

ASTRON 199 Independent Study

1-3 cr. Undergraduate.

For further information, consult dept chair.

Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

Course Rules: May be retaken to 6 cr max.

Current Offerings: <https://catalog.uwm.edu/course-search/>

ASTRON 211 Principles of Astronomy

3 cr. Undergraduate.

Light and matter; planets; stellar evolution, nucleosynthesis; death of stars; white dwarfs, neutron stars, black holes; galaxies, quasars; expansion of universe, dark matter; big bang.

Prerequisites: Physics 120(P) or 209(P) or cons instr.

General Education Requirements: NS

Last Taught: Fall 2023, Fall 2021, Fall 2019, Fall 2017.

Current Offerings: <https://catalog.uwm.edu/course-search/>

ASTRON 289 Internship in Astronomy, Lower Division

1-6 cr. Undergraduate.

Application of basic principles of astronomy in a research, business, organizational, educational, political, or other appropriate setting.

Prerequisites: introductory course in Astronomy; 2.25 GPA, and consent of supervising faculty member.

Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

Current Offerings: <https://catalog.uwm.edu/course-search/>

ASTRON 299 Ad Hoc:

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. May be retaken w/chg in topic.

Prerequisites: none; add'l prereqs may be assigned to specific topic.

Last Taught: Fall 2007.

Current Offerings: <https://catalog.uwm.edu/course-search/>

ASTRON 400 Astrophysics I

3 cr. Undergraduate.

Introductory astrophysics for students with junior-/senior-level background in mathematics and physics. Light and matter; stars and the sun; extrasolar planets; compact objects.

Prerequisites: ASTRON 103(P), ASTRON 211(P), or consent of instructor; PHYSICS 309(P). PHYSICS 317(R).

Last Taught: Fall 2024, Fall 2022, Fall 2020, Fall 2018.

Current Offerings: <https://catalog.uwm.edu/course-search/>

ASTRON 401 Astrophysics II

3 cr. Undergraduate.

Continuation of ASTRON 400; for students with junior-/senior-level background in mathematics and physics. The Milky Way Galaxy; galactic evolution; structure of the Universe; cosmology.

Prerequisites: ASTRON 400(P).

Last Taught: Spring 2025, Spring 2023, Spring 2021, Spring 2019.

Current Offerings: <https://catalog.uwm.edu/course-search/>

ASTRON 489 Internship in Astronomy, Upper Division

1-6 cr. Undergraduate.

Application of advanced principles of astronomy in a research, business, organizational, educational, political, or other appropriate setting.

Prerequisites: junior standing; 300-level or above course in astronomy; 2.25 GPA and consent of supervising faculty member.

Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

Current Offerings: <https://catalog.uwm.edu/course-search/>

ASTRON 499 Ad Hoc:

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Prerequisites: junior standing; additional prerequisites may be assigned to specific topic.

Course Rules: May be retaken with change in topic. Requires department and associate dean approval. In exceptional circumstances, can be offered in one additional semester.

Last Taught: Spring 2006.

Current Offerings: <https://catalog.uwm.edu/course-search/>