Duluth Campus

Astronomy Minor

D Earth & Environmental Sci, UMD-Physics & Astronomy

Swenson College of Science and Engineering

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2020
- Required credits in this minor: 36

The astronomy minor enhances students' understanding of the formation, structure, and evolution of the universe while providing a sound foundation for professional programs in the sciences. The minor program covers a wide range of topics in general astronomy, stellar dynamics, astrophysics, cosmology, and techniques of astronomical observation and analysis.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Astronomy (36 cr)

General Astronomy

AST 2050 - General Astronomy [NAT SCI] (3.0 cr)

Mathematics

MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)

Physics I Lecture

PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)

or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)

Physics I Lab

PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)

Physics II Lecture

PHYS 2015 - General Physics II (4.0 cr)

or PHYS 2018 - Honors General Physics II (4.0 cr)

Physics II Lab

PHYS 2016 - General Physics Lab II (1.0 cr)

Relativity and Quantum Physics

PHYS 2021 - Relativity and Quantum Physics (4.0 cr)

Astrophysics I and II

PHYS 3561 - Astrophysics I Stellar Astrophysics (3.0 cr)

PHYS 3562 - Astrophysics II: Galaxies and the Universe (3.0 cr)

Observational Astronomy

AST 4110 - Observational Astronomy (3.0 cr)

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Information current as of March 29, 2024