

Astronomy

Courses required for the first year: None
Courses recommended for the first year: Fall – MATH-160* or MATH-140, according to placement Spring - PHYS-211, MATH-160* if not taken in fall
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The Minor in Astronomy

Required Courses

Course Number	Course Name	Learning Perspective/ Suffix	Prerequisites	Usually offered: F, J, SP, SU*	Credits
ASTR-135	Planets	PN		F	4
ASTR-145	Stars and Galaxies	PN		SP	4
ASTR-305	Advanced Astronomy		PHYS-151 or PHYS-211, and ASTR-145	F	4
ASTR-367	Astronomical Laboratory		PHYS-151 or PHYS-211	SP	2

Additional Courses (* Required Supporting Courses)

Course Number	Course Name	Learning Perspective/ Suffix	Prerequisites	Usually offered: F, J, SP, SU*	Credits
MATH-160 (see Note below)	Calculus			F/SP	4
PHYS-211**	Foundational Physics I	PN	MATH-160 (or co-requisite)	SP	4
PHYS-151**	Principles of Physics I	PN		F	4

Note: MATH-160 is only necessary for taking PHYS-211

**PHYS-211 or PHYS-151 is required

Minor Overview

- ASTR-135 and ASTR-145 are taught in the John Deere Planetarium and include full-dome content on constellations, visual astronomy, and navigation using the digital projector and starfield. Students will also have opportunities to help with open houses by giving planetarium shows and

- operating telescopes.
- Students will use the remotely operated Robert L. Mutel Telescope, provided by the MACRO consortium, to collect astronomical images and data for assignments and lab activities in the courses related to this minor.
 - Interested students will have the opportunity to do research with the telescope and/or related engineering projects, possibly in collaboration with students and faculty at other schools in the MACRO consortium, and join faculty on yearly visits to the observatory site for maintenance, upgrades, and experiments.

*Fall, J term, Spring, Summer; see [Academic Calendar](#) for specific dates

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