Augustana College

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

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.

^{**}Phys 211 or Phys 151 is required

- 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 <u>Academic Calendar</u> for specific dates

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