**ASTRONOMY–PHYSICS, B.S.**

**ADVISING AND CAREERS**

**ADVISING**

For premajor advising and major advising, students should contact the Undergraduate Advisor [Eric Schueffner](elschueffner@wisc.edu)

We encourage students to meet major advisors as early as possible. Undergraduate Advisor Eric Schueffner (via Starfish) can assist students with curriculum and course scheduling, career planning, academic concerns, and overall performance and strategies.

Those needing additional information and guidance on the major can see our undergraduate coordinator [Heather Sauer](hsauer@wisc.edu).

To declare the astronomy–physics major, first meet with Eric Schueffner, then contact the faculty Advisors: Professor Elena D’Onghia (edonghia@astro.wisc.edu) or Professor Snezana Stanimirovic, (sstanimi@astro.wisc.edu).

**RECOMMENDED ADDITIONAL COURSES**

**Math:** Mathematics courses other than those required as prerequisites for PHYSICS courses are not required for the major, but the following courses are recommended: MATH 320 Linear Algebra and Differential Equations OR MATH 319 Techniques in Ordinary Differential Equations and MATH 340 Elementary Matrix and Linear Algebra. If a student plans to work toward the Ph.D degree, the student should also take MATH 321 Applied Mathematical Analysis and MATH 322 Applied Mathematical Analysis. Additional mathematics (or statistics) courses should be chosen after consultation with the undergraduate advisor.

**Computing:** Computers are fundamental to astronomical research. An introduction through Introduction to Programming, or short courses run by the computing center should be considered. COMP SCI 220 Data Science Programming I is a good option.

**Chemistry:** A college course in physical or organic chemistry is useful for astronomy students. Physical chemistry is particularly valuable for those interested in the interstellar medium, comets, and planets.

**Statistics:** A background in statistics is valuable, particularly for students interested in observational astronomy. STAT 302 Accelerated Introduction to Statistical Methods, or STAT/MATH 309 Introduction to Probability and Mathematical Statistics I/STAT/MATH 310 Introduction to Probability and Mathematical Statistics II for a more solid foundation, are suggested.

**Languages:** Spanish but also, French, German and Russian are also useful foreign languages for astronomy students, but are not required.

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (https://successworks.wisc.edu/) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.