

ASTRONOMY–PHYSICS, B.A.

ADVISING AND CAREERS

ADVISING

For premajor advising and major advising, students should contact the Undergraduate Advisor Eric Schueffner (elschueffner@wisc.edu) or Faculty Advisors: Professor Elena D’Onghia (edonghia@astro.wisc.edu) (townsend@astro.wisc.edu) and Professor Snezana Stanimirovic, (ssanimi@astro.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 (2554 Sterling Hall, hsauer@wisc.edu).

To declare the astronomy–physics major, please contact Professor D’Onghia or Professor Stanimirovic to schedule an appointment.

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

SuccessWorks at the College of Letters & Science helps students leverage the academic skills learned in their major, certificates, and liberal arts degree; explore and try out different career paths; participate in internships; prepare for the job search and/or graduate school applications; and network with professionals in the field (alumni and

employers). In short, SuccessWorks helps students in the College of Letters & Science discover themselves, find opportunities, and develop the skills they need for success after graduation.

SuccessWorks can also assist students in career advising, résumé and cover letter writing, networking opportunities, and interview skills, as well as course offerings for undergraduates to begin their career exploration early in their undergraduate career.

Students should set up their profiles in Handshake (<https://careers.ls.wisc.edu/handshake/>) to take care of everything they need to explore career events, manage their campus interviews, and **apply to jobs and internships from 200,000+ employers around the country.**

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://careers.ls.wisc.edu/make-an-appointment/>)
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)—for more information, see Inter-LS 210: Career Development, Taking Initiative (<https://careers.ls.wisc.edu/inter-ls-210-career-development-taking-initiative/>)
- INTER-LS 215 Communicating About Careers (3 credits, fulfills Com B General Education Requirement)
- Handshake (<https://careers.ls.wisc.edu/handshake/>)
- Learn how we’re transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/lsci/>)