

Astronomy Town Hall Meeting

...

Fall 2025

Topics of Discussion

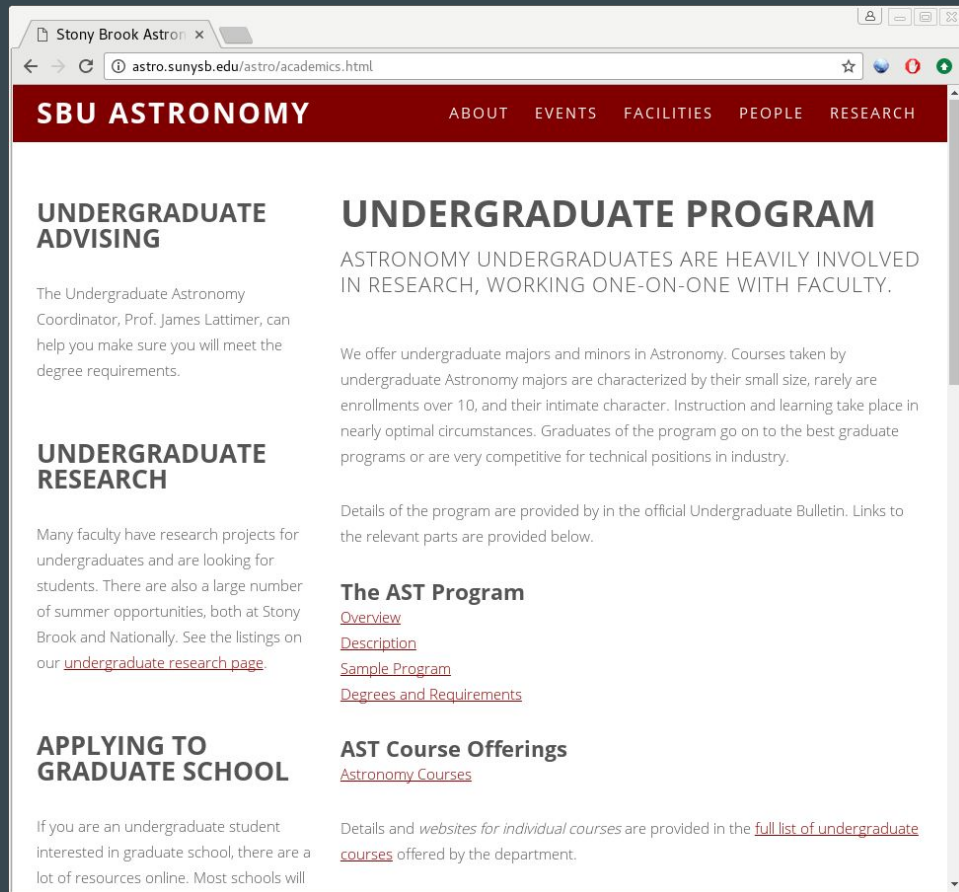
- Astronomy courses / degree requirements
- Research opportunities
- Graduate School
- Careers
- Astronomy club
- Whatever is on your mind

Introduction

The Astronomy group has 12 regular faculty and a number of active research and emeritus faculty, several postdocs, many graduate students, and many undergraduates active in research.

UG Astro Program

- Links to the UG bulletin with degree requirements
- Links to research opportunities
- Information about graduate school



The screenshot shows a web browser window with the address bar displaying astro.sunysb.edu/astro/academics.html. The website has a dark red header with the text "SBU ASTRONOMY" and a navigation menu with links: ABOUT, EVENTS, FACILITIES, PEOPLE, and RESEARCH. The main content area is white and features three columns of text. The first column on the left has the heading "UNDERGRADUATE ADVISING" and text about Prof. James Lattimer. The middle column has the heading "UNDERGRADUATE RESEARCH" and text about faculty research projects. The right column has the heading "UNDERGRADUATE PROGRAM" and text about the program's focus on research. Below the research section, there is a section titled "The AST Program" with links to Overview, Description, Sample Program, and Degrees and Requirements. At the bottom, there is a section titled "APPLYING TO GRADUATE SCHOOL" with text about resources for undergraduate students.

SBU ASTRONOMY ABOUT EVENTS FACILITIES PEOPLE RESEARCH

UNDERGRADUATE ADVISING

The Undergraduate Astronomy Coordinator, Prof. James Lattimer, can help you make sure you will meet the degree requirements.

UNDERGRADUATE RESEARCH

Many faculty have research projects for undergraduates and are looking for students. There are also a large number of summer opportunities, both at Stony Brook and Nationally. See the listings on our [undergraduate research page](#).

UNDERGRADUATE PROGRAM

ASTRONOMY UNDERGRADUATES ARE HEAVILY INVOLVED IN RESEARCH, WORKING ONE-ON-ONE WITH FACULTY.

We offer undergraduate majors and minors in Astronomy. Courses taken by undergraduate Astronomy majors are characterized by their small size, rarely are enrollments over 10, and their intimate character. Instruction and learning take place in nearly optimal circumstances. Graduates of the program go on to the best graduate programs or are very competitive for technical positions in industry.

Details of the program are provided by in the official Undergraduate Bulletin. Links to the relevant parts are provided below.

The AST Program

[Overview](#)
[Description](#)
[Sample Program](#)
[Degrees and Requirements](#)

APPLYING TO GRADUATE SCHOOL

If you are an undergraduate student interested in graduate school, there are a lot of resources online. Most schools will

Details and *websites for individual courses* are provided in the [full list of undergraduate courses](#) offered by the department.

Astronomy Courses

- **AST 203** is offered every semester
- **AST 205** is offered every Fall (order with AST 203 doesn't matter)
- **AST 34x**-level classes are offered on a 2 year cycle—plan ahead
- Many students take **AST 443** (observational techniques) to satisfy major requirements
 - Offered every semester
 - Can be used in place of senior physics lab (PHY 445) for double majors
 - Note: if you plan to do MAT in physics later, you should take PHY 445
- Many students also do research or reading classes to satisfy major requirements
 - You need to find an advisor willing to mentor you
 - You may not find someone willing to do 3 credits in one semester
- Physics and Astronomy majors are closely related—many students double major

Astronomy Degree Requirements

- **AST 203**
- Three of: **AST 341** (stars & radiation); **AST 346** (galaxies); **AST 347** (cosmology); **AST 390** (special topics)
- Six credits from **AST 205** of higher
 - Except: AST 248, AST 301, AST 389, AST 475
 - Any combination of:
 - **AST 205** (planetary science)
 - **AST 443** (observational techniques)
 - the 4th of the AST 3xx series
 - **PHY 408** (general relativity)
 - independent research (up to 3 credits)
- Eight credits of astronomy-related courses that complement an astronomy major's education
- PHY intro sequence
- Other physics
 - **PHY 251/2** (modern physics)
 - **PHY 277** (introduction to computation)
 - **PHY 300** (waves)
 - **PHY 306** (thermal physics)
- Math
 - **MAT 131** and **132** or similar sequence
 - **MAT 203** or **205** or **307** or **AMS 261** (calc III)
 - **MAT 303** or **305** or **308** or **AMS 361** (calc IV)

Astronomy Degree Requirements

- Note: no more than 3 classes with a grade of C- may be applied to the major
- Practical notes:
 - you need AST 203 by Spring of your sophomore year to finish in 4 years
 - you should take PHY 277 in your first two years as well
- Plan ahead!
 - AST 3xx frequently conflicts with PHY 306 in the Spring. PHY 306 is offered every semester now, so you may want to take it in the Fall
- Some recent changes:
 - Upper level writing requirement clarifications
 - PHY 277 is a pre-req for AST 341
 - We are trying to offer three 300-level classes each academic year

Astronomy Degree Requirements

- Other popular classes:
 - PHY 153: python and statistics
 - Complex analysis
 - AMS 326: Numerical Analysis
 - PHY 546: Python for Scientific Computing

AST 3xx Sequence

- **AST 341:** Stars and Radiation (note: prereq of PHY 277)
 - Fall 2026
 - Fall 2028
- **AST 346:** Galaxies
 - Spring 2027
 - Spring 2029
- **AST 347:** Cosmology
 - Fall 2025 (now)
 - Fall 2027
- **AST 390:** special topics
 - Spring 2026 (exoplanets & compact objects)
 - Spring 2027

Next Semester (Spring 2026)

- AST 203: Astronomy (Lanzetta)
- AST 390(1): Exoplanets (Armitage)
- AST 390(2): Compact Objects (Lattimer)
- AST 443: Observational Astronomy (Birrer)
- PHY 408: Relativity (Swesty)
- PHY 546: Python for Scientific Computing (w/ permission from Zingale)

AST 390: Special Topics

- This course could substitute one of the other AST 34x courses
- Past offerings
 - Spring 2018, 2021, 2024: Compact Objects (NHs, BHs, and Gravitational Waves)
 - Spring 2020, 2022: Exoplanets
 - Spring 2023, 2025: Computational Astrophysics
- Upcoming:
 - Spring 2026: two sections: Exoplanets & Compact Objects
- Currently requires permission of the instructor

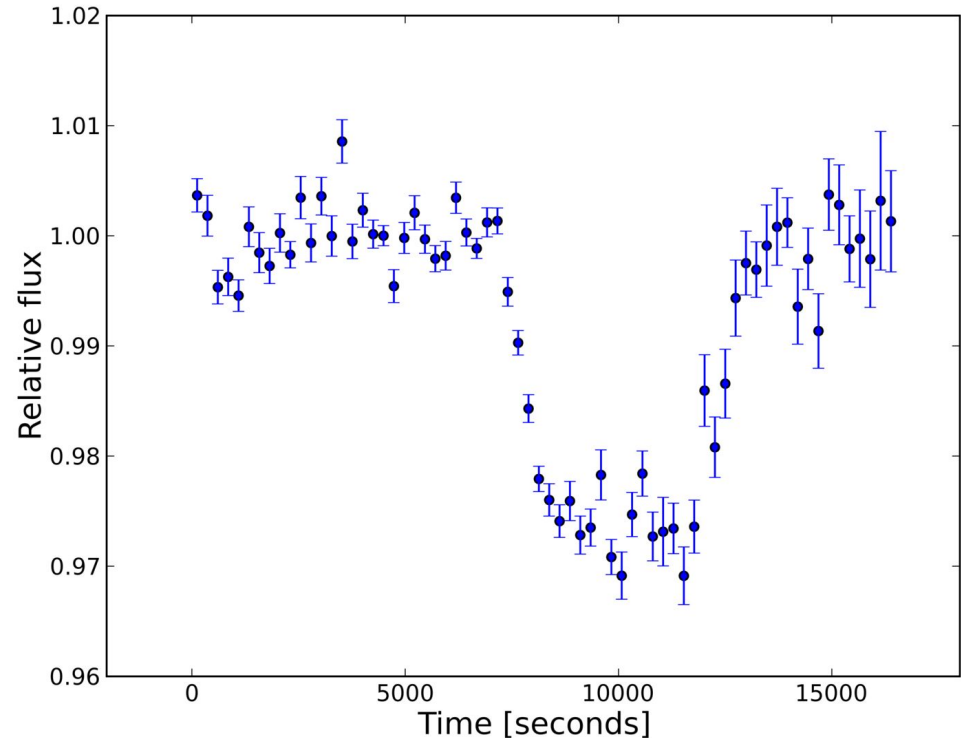
Time Conflicts!

- Note: AST 390 / AST 34x and an upper-level PHY course (thermo or quantum) have historically been scheduled at the same time in the Spring semester
 - You will need to plan ahead to make sure you can get all the requirements met for your degree.
 - Keep in mind that PHY 306 is now offered every semester
 - But also... PHY 3xx courses will no longer be offered over the summer :(

AST 443: Observational Techniques



Lightcurve of transiting exoplanet around HD189733—data taken by students in AST 443 from our rooftop telescope!



Additional Course Requirement

- “Eight credits of astronomy-related courses that complement an astronomy major’s education”
 - if you are a PHY double major, then your PHY courses count here
 - see PHY bulletin

- **AMS:** 102, 110, 301, 303, 310, 311, 315 332, 335, 345, 351 and other 300-level courses (not 361).
- **AST:** 203, 205, 287, 341, 346, 347, 443, 447 and 487.
- **ATM:** 205, 247, 305, 320, 345, 346, 348, 397, 447 and 487.
- **BIO:** 201, 202, 203, 204, 205, 207, 310, 311, 332 and other 300-level courses.
- **BME:** 100, 212, 212, 260 and many 300-level courses.
- **CHE:** 131/133, 132/134, 152, 154, 301, 302, 321, 322, 351, 375 and other 300-level courses.
- **CSE:** 110, 130, 150, 230, and most 300-level courses.
- **ECO:** 303, 305, 310, 321, 355 and 373.
- **ESE:** many 200- and 300-level courses.
- **ESG:** 302 and other 300-level courses.
- **ESM:** many 200- and 300-level courses.
- **EST:** 291, 320, 392, 393 and 499.
- **GEO:** 287 and many 300-level courses.
- **HBM:** 320 and 321.
- **ISE:** 332
- **JRN:** 365
- **MAT:** 310, 312, 331, 333, 341, 342, 351, 362 and many 300-level courses (not 303, 305 or 307).
- **MAR:** most 300-level courses.
- **MEC:** most 300-level courses.
- **WSE:** 201, 380, 381, and 401

Upper-Level Writing Requirement

Students are certified as satisfying the upper-division writing requirement by registering for the 0-credit AST 459 and completing writing projects within their major. All students majoring in Astronomy/ Planetary Sciences must submit two papers (term papers or independent research papers) to the Astronomy coordinator for Department evaluation by the end of the junior year. If this evaluation is satisfactory, the student will have fulfilled the upper- division writing requirement. Papers should be written in the form of a journal article. All papers must consist of an abstract, introduction, main content, and references. References should be cited throughout the text. Any figures should be numbered and have an appropriate caption. If you are using a lab report for the basis of this requirement, you should expand upon the introduction and describe the connection to topical scientific research.

A typical length should be 10 pages (double spaced, 11-point font) plus references, preferably written in LaTeX.

Students should consult with the department advisor to ensure that their plan for completing the Upper Division Writing Requirement is consistent with university graduation requirements for General Education. Students completing the Stony Brook Curriculum (SBC) must complete a course that satisfies the *Write Effectively within One's Discipline* (WRTD) learning objective to graduate. The Upper Division Writing Requirement is consistent in most cases with the SBC learning outcomes for WRTD.

You should hand in your papers by the end of your Junior year

Upper-Level Writing Requirement

Submission policy:

Papers drafts are usually required to be submitted by the middle of the semester in which you've registered for AST 459

Lab report policy:

The standard ("canned") AST 443 labs cannot be used for the upper level writing requirement, since the background work is already done for you.

However, in that class you also have the opportunity to write your own observing proposal, with is an independent creative work, and if selected, do the lab on this. We will accept an expanded version of that lab for consideration of the upper level writing requirement -- but only for the individual who wrote the original proposal.

Upper-Level Writing Requirement

- Other ways to satisfy
 - Use a research paper from another AST class
 - Write up a summary of research you have been doing with faculty on campus
 - Pick a topic of interest to you, research it, and write up a paper describing the state of that field
- Most offerings of AST 390 have a research paper component
- Caution!!! PHY 335 does not count toward the PHY upper-level writing unless you get prior approval

SBC Requirements

- We require 2 upper-level writing papers. To get credit you must register for **AST 459**
 - AST major: register for AST 459 *after* you completed the first paper.
 - PHY+AST double majors should take AST 459 for one paper and PHY 459 for the other (doesn't have to be at the same time)
 - This ensures all University requirements (**WRTD**) are fulfilled
- You should complete these *before* your senior year
 - Often changes are requested to the papers
 - Waiting until the last minute can put your graduation in jeopardy
- **SPK** requirement
 - You can take the 1-credit **AST 100** to satisfy the **SPK** requirement
 - AST 443 (Observational Techniques) also satisfies the **SPK** requirement

Science Writing and Speaking

- Students wanting extra instruction on speaking and writing should look at:
 - **JRN 365**: Talking Science: highly recommended by your peers
 - **WRT 380**: Advanced Research Writing

Honors

- In your Junior year, you can apply to become a candidate for Departmental honors
 - Need to complete a thesis as part of your research
 - Need to register for AST 447 or AST 487
 - You will want to have a faculty mentor lined up at this point
 - Need a GPA of 3.3 or higher in math/natural sciences
- If you are doing research, you should apply for honors
- You need to form a committee of 3 faculty: 2 from astro + 1 from physics
- The thesis needs to be approved before you are cleared for graduation
- Note:
 - PHY major honors does not require a thesis, so you can do both AST and PHY honors with only a single thesis.
 - Thesis does not automatically count as part of your upper level writing requirement.

Research Opportunities

- **AST 200** (Current Astronomical Research) is a good way to see what research is taking place
- **PHY 277** (Computation for Physics and Astronomy) provides a good basis for the tools you'll need
- **AST 443** (Observation Astronomy) provides a good basis for observation research
- Local opportunities
 - Knock on doors
 - Talk to fellow students
 - Look at the UG section of the Astro Group webpage
- Most groups have weekly meetings that UGs can sit in on and participate
- UG student office (back of ESS 437) available
- Course credit:
 - **AST 287**: Introductory Research
 - **AST 345**: Undergraduate Research
 - **AST 447**: Senior Tutorial
 - **AST 475**: Teaching Practicum (not for major credit)
 - **AST 487**: Senior Research
- Note: you can also take the PHY course equivalents

External Research Opportunities

- NSF REU program
 - https://www.nsf.gov/crssprgm/reu/list_result.jsp?unitid=5045
 - Provides stipend and travel expenses for ~10 week research experience at a University in the US
 - Previous SBU students went to Hawaii, Harvard, Texas, SF, ...
 - Highly competitive
 - Applications due in toward end of Jan. (but start looking in Dec.)
- DOE SULI program
 - <https://science.osti.gov/wdts/suli>
- URECA can provide money for summer research on campus
 - <https://www.stonybrook.edu/commcms/ureca/summer/urecasummer.php>
- Some faculty can pay from grants over the summer
- Typically application requires: transcript, 2 - 3 letters of recommendation, statement of interest

Letters of Reference

- Summer programs and grad school applications require letters
 - You may be asked to sign a FERPA release form
- Some advice:
 - Ask someone who knows you well, preferably who you had for a small, upper-level class
 - Give lots of lead time – 2 - 4 weeks is standard. It takes time to write a letter
 - Prepare a spreadsheet (google sheet) with the names of programs, due dates, and a checkbox your Letter writer can check when the letter is sent
 - Grant edit privileges

CU*iP

A professional conference experience for undergraduate women and gender minorities to build their networks and further their careers in physics

- deadline was in mid Oct summer this year
- Apply:
<https://www.aps.org/programs/women/cuwip/>

The goal of Conferences for Undergraduate Women and Gender Minorities in Physics (CU*iP) is to support undergraduate women and gender minorities in pursuing physics, whether through graduate studies or professional careers, by giving them the opportunity to experience a professional conference. Conferences are hosted in collaboration with universities, colleges and other institutions.

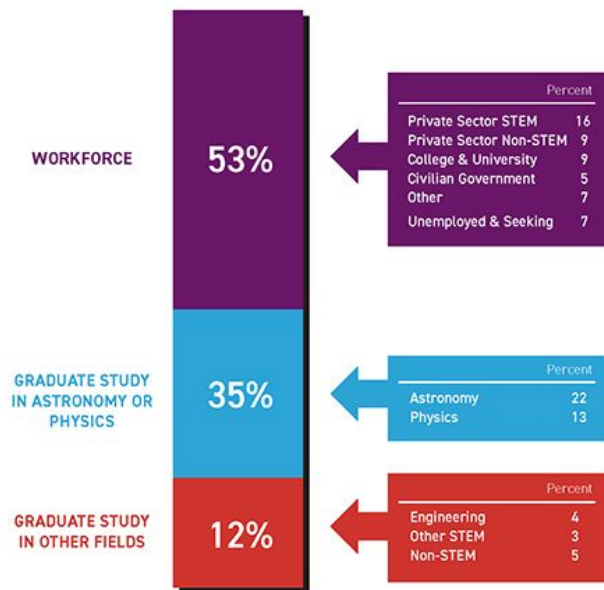
At these regional conferences, undergraduate physics majors can learn from the advice, ideas and experiences of professionals and educators in physics. Conference organizers strive to create a welcoming environment for all, with a focus on undergraduate women and gender minorities.

Careers

- Not all career paths require graduate school!
- Astronomy research provides students with the skills to do data analysis, software / algorithm design, and problem solving
- Career paths:
 - High school teaching (consider SBU MAT program)
 - Industry
 - Astro related
 - Software / Data science
 - Financial
 - ...
 - National observatories and laboratories
 - Museums / planetariums
 - Science journalism

Careers

Astronomy Bachelors 1 Year Later



The data in this figure are from the AIP Statistical Research Center's annual Astronomy Bachelors Follow-up Survey, classes of 2018, 2019, and 2020 combined. The three degree classes had 596, 666, and 820 degree recipients, respectively. Three percent of respondents to the survey indicated that they had left the US to pursue employment or graduate study and are not included in the figure.





Post-Bacc's

- Still interested in research, but not sure about grad school?
 - Consider a post-bacc
- Some jobs posted to AAS Job Register:
- AstroBetter maintains a list:
 - *Tips for Landing a Post-Baccalaureate Research Experience*
 - https://docs.google.com/document/d/1yQFGidu6PL_Oif5jYfK4p1Xx7jXq96QYScjdI8zGV8/edit#


Podcast!

Astronomers Turned Data Scientists

Home2025 Meeting ▾Past Meetings



Astronomers
Turned
Data
Scientists



Podcast

YouTube

Slack

LinkedIn

Bluesky

E-mail

Our goal is to create a community among Astronomers-Turned-Data-Scientists (ATDS), as well as between former astronomers in data science, and current astronomers – especially current astronomers who use data science tools and techniques in their research, as well as anyone who might be interested in transitioning into a data science career.

Join us on the [ATDS Slack](#) and on [BlueSky!](#)

Also check out the ATDS Podcast which is on [YouTube](#), [Apple Podcasts](#), [Spotify](#), [PodBean](#), [Overcast](#), or anywhere else you get your podcasts.

Email Us

Graduate School

- Apply during the senior year
- Both Physics and Astronomy programs and Astronomy/Astrophysics programs
- Strong application:
 - Letters of reference
 - Personal statement
 - Research experience
 - GPA
 - Many programs dropping GREs:
<https://docs.google.com/spreadsheets/d/19UhYToXOPZkZ3CM469ru3Uwk4584CmzZyAVVwQJlcyc/edit?usp=sharing>
- PhD graduate students are fully supported
 - Teaching / research assistant with annual stipend (~\$36,000) + tuition waiver
- ~ 4 - 6 years to get degree (sometimes shorter, sometimes longer)

Graduate School

- Why consider graduate school?
 - Interested in doing astronomy research professionally
 - Want to learn research skills that you can transfer to industry
 - Important to realize that # of PhD grads each year \gg # of academic positions available each year
- Interested in graduate school?
 - Talk to some of our grad students
 - Reach out to students at prospective schools via social media
- Advice from former students:
 - “choose a program for the advisors not for the program”

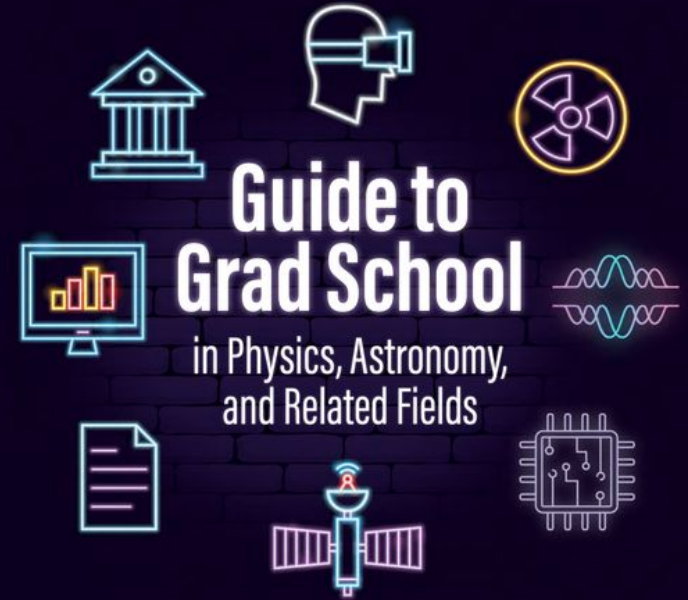
Graduate School

Grad School Shopper can help identify programs

https://digital.physicstoday.org/physicstoday/gradschoolshopper_magazine_2022/

GradSchoolShopper

MAGAZINE | FALL 2022



- ❑ What programs are looking for in applicants
- ❑ How to get great letters of recommendation
- ❑ Pathways to medical physics
- ❑ The physics GRE explained

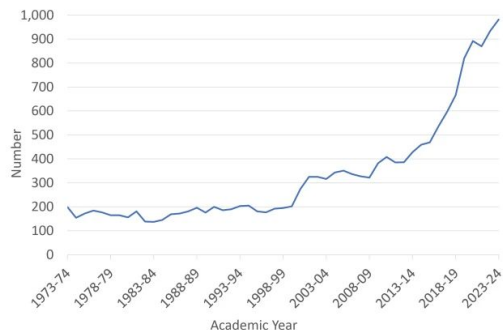
presented by



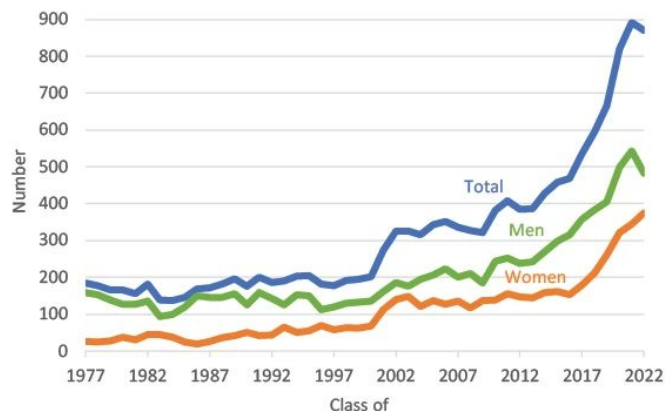
Graduate School

- As the number of Astronomy Bachelor's degrees have increased, grad school admissions have gotten very selective

Number of Bachelor's Degrees Earned in Astronomy,
Academic Years 1973-74 through 2023-24



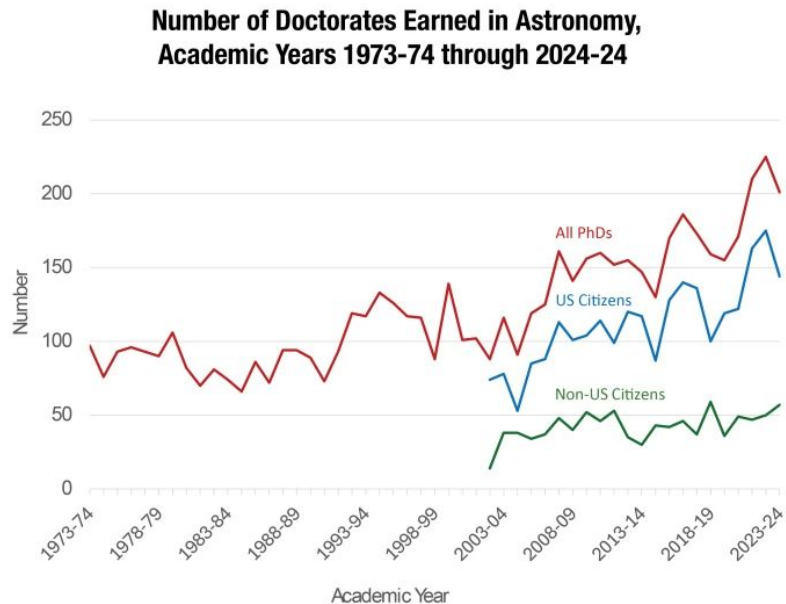
Number of Bachelors Earned in Astronomy,
Classes 1977 through 2022



Astronomy departments reported 1% of their astronomy bachelor's degree recipients in the class of 2022 identify as a gender other than man or woman.

Graduate School

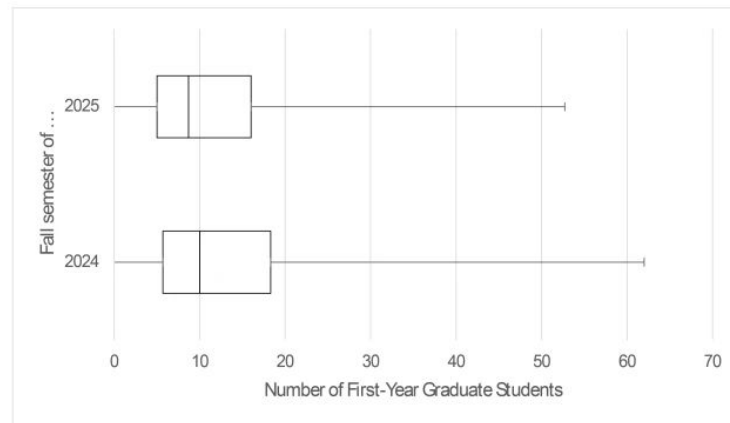
- PhDs in Astronomy have also greatly increased



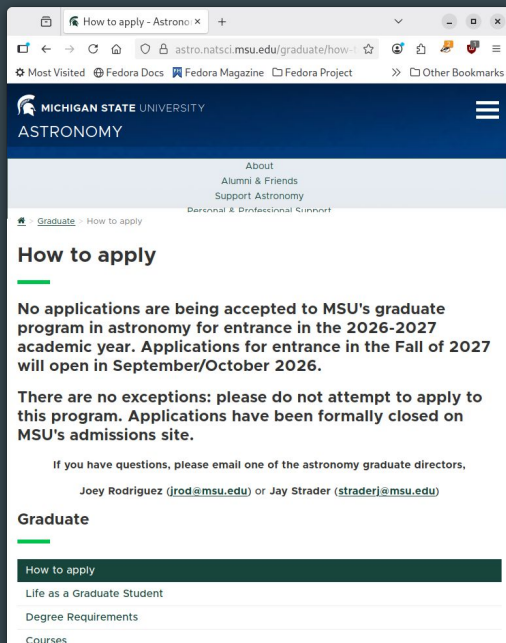
Incoming Class Size Shrinking

- Graduate programs are admitting fewer students

Number of First-Year Graduate Students Across All Departments



Some Programs Suspended for 2026



How to apply - Astrono x | astro.natsci.msu.edu/graduate/how-to-apply

MICHIGAN STATE UNIVERSITY
ASTRONOMY

About
Alumni & Friends
Support Astronomy
Personal & Professional Support

Graduate | How to apply

How to apply

No applications are being accepted to MSU's graduate program in astronomy for entrance in the 2026-2027 academic year. Applications for entrance in the Fall of 2027 will open in September/October 2026.

There are no exceptions: please do not attempt to apply to this program. Applications have been formally closed on MSU's admissions site.

If you have questions, please email one of the astronomy graduate directors, Joey Rodriguez (jrod@msu.edu) or Jay Strader (straderj@msu.edu)

Graduate

How to apply

Life as a Graduate Student

Degree Requirements

Courses



Graduate Admissions | astro.washington.edu/graduate-admissions

UNIVERSITY of WASHINGTON
College of Arts & Sciences

DEPARTMENT OF ASTRONOMY

Programs & Courses | Graduate

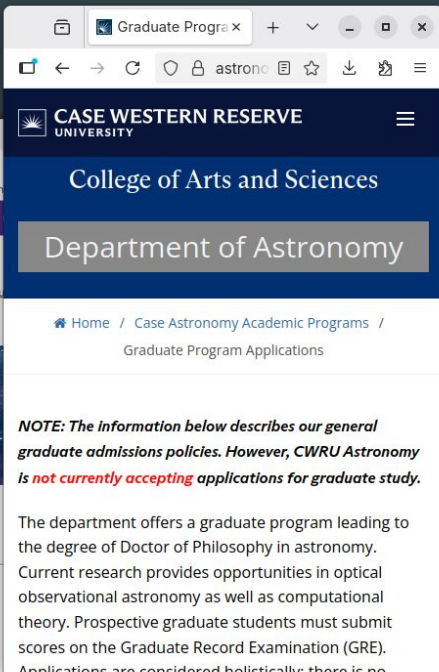
Graduate Admissions

The Department of Astronomy has suspended graduate admissions for the 2026-2027 Academic Year.

General Information for applying to UW Astronomy Graduate Program.

Applications must be submitted using the application available on the [UW graduate school website](#).

Please watch this page for application deadlines.



Graduate Programs | astrono

CASE WESTERN RESERVE UNIVERSITY
College of Arts and Sciences
Department of Astronomy

Home / Case Astronomy Academic Programs / Graduate Program Applications

NOTE: The information below describes our general graduate admissions policies. However, CWRU Astronomy is *not currently accepting applications for graduate study.*

The department offers a graduate program leading to the degree of Doctor of Philosophy in astronomy. Current research provides opportunities in optical observational astronomy as well as computational theory. Prospective graduate students must submit scores on the Graduate Record Examination (GRE). Applications are considered holistically; there is no

Check with programs before applying—application fees are not refundable!

see https://docs.google.com/spreadsheets/d/1n4ZCoZpJ44TlD_jnQfICJ5d4PXVYh36ce6ZQICoVo_E/

Graduate School

- There are fellowships available that you can apply for during your senior year
 - These will give you independence in your studies
- NSF GRFP
 - <https://www.nsfgrfp.org/>
 - 3 yrs of support (\$37k stipend + \$12k to institution)
- DOE CSGF
 - <https://www.krellinst.org/csgf/>
 - 4 yrs of support (\$45k + \$1k prof development)
 - 12 week practicum at DOE national lab



DOE CSGF

DEPARTMENT OF ENERGY

COMPUTATIONAL SCIENCE GRADUATE FELLOWSHIP

The Department of Energy Computational Science Graduate Fellowship (DOE CSGF) provides up to four years of financial support for students pursuing doctoral degrees in fields that use high-performance computing to solve complex problems in science and engineering.

The program also funds doctoral candidates in applied mathematics, statistics or computer science departments who undertake research in enabling technologies for emerging high-performance systems. Complete details and a listing of applicable research areas can be found on the DOE CSGF website.

BENEFITS

- + \$38,000 yearly stipend
- + Payment of full tuition and required fees
- + Yearly program review participation
- + Annual professional development allowance
- + 12-week research practicum experience
- + Renewable up to four years

APPLY TODAY!



A radiation hydrodynamic simulation using a 3-D model of an 80-solar-mass star. Visualization: Joseph A. Woody, Argonne National Laboratory; Pi-Lars Bildsten, University of California, Santa Barbara

The DOE CSGF is open to senior undergraduates and students in their first year of graduate study.

Applications Due 1.12.2022 ... www.krellinst.org/csgf

This equal opportunity program is open to all qualified persons without regard to race, gender, ethnicity, age, physical disability or national origin.

 **U.S. DEPARTMENT OF ENERGY** | Office of Science

 **NNSA**
National Nuclear Security Administration

 **KRELL INSTITUTE**

Graduate School

- Applying is expensive
 - Many schools have fee waivers—ask your prospective schools if you qualify
 - Consider schools that don't require GREs
- Have someone read your personal statement
 - Ask a fellow student or research mentor for feedback
 - If there are particular faculty you are interested in working with, list them here
 - If there are hardships or reasons why your GPA doesn't accurately reflect your potential, discuss it here
- Consider contacting faculty at schools you are interested in
 - Ask if they will be taking students in the near future
 - Ask about any fellowship opportunities you might be eligible for

Microgrants for Application Fees

25 AUGUST 2023

AAS CSMA Launches Micro-Grants Program



Neelab Yousafzai

American Astronomical Society (AAS)



Photo credit: American Institute of Physics

The **AAS Committee on the Status of Minorities in Astronomy (CSMA)** was awarded a **\$15,000 AIP Diversity Action Fund Award** to establish the CSMA Micro-Grants Program. This program sponsors Black, Indigenous, People of Color (BIPOC), and other students who are suffering from the effects of financial scarcity. Yearly through 2023, the program will offer 10 one-time grants of at least \$500 each to support BIPOC undergraduates to pay graduate school application fees, GRE testing fees, virtual conference registrations, or to purchase textbooks and research supplies. The 2023 Micro-Grants Program applications are open as of 28 August and will close on 13 October (11:59 pm ET).

<https://aas.org/posts/news/2023/08/aas-csma-launches-micro-grants-program>

Big 10 Academic Alliance Fee Waivers

<https://btaa.org/resources-for/students/freeapp/eligibility>



BIG
ACADEMIC ALLIANCE
FreeApp

University of Illinois

Indiana University

University of Iowa

University of Maryland

University of Michigan

Michigan State University

University of Minnesota

University of Nebraska-Lincoln

Northwestern University

The Ohio State University

Penn State University

Purdue University

Rutgers University

University of Wisconsin-Madison

Would you apply to more graduate schools if you did not have to pay the application fee?

FreeApp is a program designed to increase access to graduate education for students who possess qualities and experiences that enhance the diversity of the intellectual, cultural and social environments at Big Ten Academic Alliance universities.

The Big Ten Academic Alliance Graduate Schools offers fee waivers for students applying to graduate programs at participating institutions. By using the FreeApp form, Big Ten Academic Alliance universities may waive your graduate application fee (an average of \$75 per application).

Applicants must meet Big Ten Academic Alliance and local campus eligibility requirements to receive a FreeApp award.



Visit the FreeApp website for program details and eligibility:
www.btaa.org/FreeApp

Graduate School

- For Astronomy programs, incoming class sizes can be small (~4-8)
 - Top schools are very competitive
 - Admission committee might be targeting some subfield, etc., so there is an element of chance
 - Apply to a range of programs, not just the “elite” schools
- Beware of masters-only admission
 - You will need to pay your own way and there is no guarantee that you will be admitted into the PhD program
 - These are an increasing trend nationally

Physics GREs

- Many programs no longer require the PGRE
 - <https://docs.google.com/spreadsheets/d/19UhYToXOPZkZ3CM469ru3Uwk4584CmzZyAVVwQJJcy/c/edit?usp=sharing>
- Talk to some seniors about the exam and how to prepare
- Practice tests can be found on the internet

Astronomy Group Events

- There are several weekly events:
 - *Astronomy seminars* on Tuesdays at 1pm (ESS 450)
 - Journal Club on Fridays at 1pm (ESS 450)
- Other interesting events:
 - Department colloquia on Tuesdays at 3:45pm in Harriman 137
 - IACS seminars (times vary)
 - Astronomy Open Nights (usually the first Friday of each month)

Undergraduate Astronomy Club

- Active since 2010
- Run observing sessions, annual AstroFest, excursions
- Help with open night
- Use our telescopes



M42: the Orion Nebula

