



PHYSICS & ASTRONOMY

POSSIBLE MODULES

- Astrophysics
- Medical Physics
- Physics
- Advanced Physics

Physics and astronomy involve the study of matter, forces, and energy as they relate to the understanding of our environment from Earth to the distant reaches of the universe.

Our students study natural phenomena such as star formation, the Earth's atmosphere, and meteors, as well as applications of physics to medicine in the form of imaging, radiotherapy, and technology (specifically nanofabrication, optoelectronic devices, and biomaterials).

BUILDING YOUR EXPERIENCE



Check the [Academic Calendar](#) for your [module requirements](#)



Discuss your progression and future goals with an [Academic Advisor](#)



Talk to a [Career Educator](#) about your steps after Western in terms of further education, career goals, certifications, and more.



Get the experience you need through opportunities at Western using Mustang Maps and the [Experience Catalogue!](#)

ABOUT THIS MAP

This map can be used to plan your journey through your undergraduate degree. You can create your own custom map at mustangmaps.uwo.ca.

PHYSICS & ASTRONOMY

PROFESSIONAL COMPETENCIES

Engage in these opportunities to build competencies for your future, including:

FIRST YEAR

MIDDLE YEARS

FINAL YEAR

FUTURE-FOCUSED PLANNER

- Look into [Science awards](#) and scholarships
- Find a [summer or part-time job](#) and update your [resume](#)
- Check out the Volunteer and [Leadership Fairs](#)
- Explore the many [opportunities](#) with Western Sport and Recreation

- Attend an [information session](#) on the Science Internship Program
- Talk to a [Career Educator](#) about putting your degree into practice
- Access [Career Fundamentals online modules](#)
- Look into [job opportunities](#), [graduate school](#), or other [further education](#)

- Update your [LinkedIn](#) profile and connect with employers through [information sessions](#) and the [Career Fair](#)
- Plan your next steps and consult [Science Career Services](#)

CRITICAL THINKER

- Apply for the [Physics and Astronomy Summer Research Fellowship](#)
- Look into future [internships](#) or [research opportunities](#). Consider doing them [abroad](#)
- Learn about entrepreneurship through [clubs](#) on campus

- Attend the [Annual Distinguished Lecture Series](#)
- Participate in the [Undergraduate Science Case Competition](#)
- Look for research opportunities and apply for an [USRA](#)
- Practically apply entrepreneurial skills at [Hack Western](#), [SheHacks](#), or the [Proteus Innovation Competition](#)

- Present your work at the [Physics Undergraduate Conference](#)
- Compete in the [Industry Problem Solving Week](#)
- Submit your coursework for an [undergraduate award](#) or to [The Current](#)
- Visit [Propel](#) for access to entrepreneurship mentorship

ADAPTABLE PROBLEM SOLVER

- Expand your understanding of mental health issues through [online learning modules](#)
- Learn more about mental health resources through the [Wellness Education Centre](#)
- Visit the [PAL Centre](#) for help with course work

- Get support from the [Peer Support Centre](#)
- Develop academic skills at the [Writing Support Centre](#) or through [Learning Development & Success](#)
- Check out [drop-in recreation and intramural opportunities](#)

- Get involved with [Active Minds Western](#)
- Drop in to a [Laura Evans Wellness Workshop](#)
- Explore [Group Care and Workshops](#)
- Check our [FRESH online nutrition resources](#)

GLOBAL LEARNER

- Check out [International Week](#) events
- Participate in a [summer program abroad](#)
- Explore [scholarships and funding](#) for international opportunities

- Go on [exchange](#) or [study abroad](#) in year 3. Plan in Year 2
- Engage with a [club](#) focused on cultural and international interests
- Volunteer with the [International & Exchange Student Centre](#)

- Be an [International Learning Ambassador](#)
- Participate in the [World's Challenge Challenge](#)
- Submit your [Global and Intercultural Engagement Honour](#) requirements

GLOBAL AND INTERCULTURAL ENGAGEMENT HONOUR (GIEH)

COMMUNITY BUILDER

- Attend [Indigenous Awareness Week](#)
- Join a [USC club](#) or the [Physics and Astronomy Student Association](#)
- Get involved with the [Science Students' Council](#)
- Become a [Western Peer Leader](#)

- Join the [Space Society of London](#) or the [Canadian Association of Physicists](#)
- Look into [Impact Experience](#) opportunities
- Be a [Mustang fan](#) at many of the free on-campus sporting events
- Be an [Academic and Leadership Programmer](#) in residence

- Get involved with the [Centre for Planetary Science](#) and Exploration Outreach programs, or the [Canadian Astronomical Society](#)
- Volunteer at the [Cronyn Observatory](#) or with [Let's Talk Science](#)

INNOVATIVE LEADER

- Attend workshops as part of the [Learn to Lead Program](#)
- Apply to be a [residence](#) or [orientation student leader](#)
- Explore [leadership and work opportunities](#) with the USC

- Attend the [Learn to Lead Summit](#)
- Get [safeTALK and ASIST](#) trained
- Be a peer mentor through the [Leadership and Academic Mentorship Program](#)

- Consider becoming a [Peer Writing Advisor](#) or tutoring through the [PAL Centre](#)
- Finish your requirements for the [Learn to Lead Leadership Certificates](#)

- **Goal-orientation**
- **Motivation**
- **Organization**
- **Self-direction**

- **Curiosity**
- **Engagement**
- **Reflection**

- **Hopefulness**
- **Self-confidence**
- **Resourcefulness**
- **Creativity**

- **Equity**
- **Global awareness**
- **Social responsibility**

- **Authenticity**
- **Empathy**
- **Collaboration**
- **Self-awareness**

- **Integrity**
- **Judgement**
- **Intercultural communication**

PARTICIPATE IN THE SCIENCE INTERNSHIP PROGRAM



PLACES TO CONNECT

- Academic Support & Engagement
- Careers & Experience
- Indigenous Student Centre
- Propel Entrepreneurship
- Sport & Recreation
- University Students' Council
- Western International
- Wellness & Well-being
- Western Libraries

Remember, these maps are intended to outline experiences that you could do. They are meant to help you find ways to enrich and personalize your Western experience. You should explore the maps based on your goals and interests, while keeping in mind your own capacity and personal boundaries.



WESTERN'S THRIVING CAMPUS

We want you to thrive throughout your time here at Western. We aim to make every student feel they have a community in which they can discover their interests, and engage with new ideas and people.

Helping you engage in your learning through practical experiences is just a fraction of what we offer; we have a wide breadth of services designed to help you address the challenges you might face along the way, including academic and career advice, and mental health resources.



TRACKING YOUR EXPERIENCE

Exploring opportunities to enhance your learning doesn't end with Mustang Maps. As you participate in co-curricular experiences, consider these tools to track your engagement and articulate your transferrable skills:

[Western's Co-Curricular Record](#) helps you showcase your experiences outside of the classroom to potential employers and graduate schools.

STUDENT EXPERIENCE
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