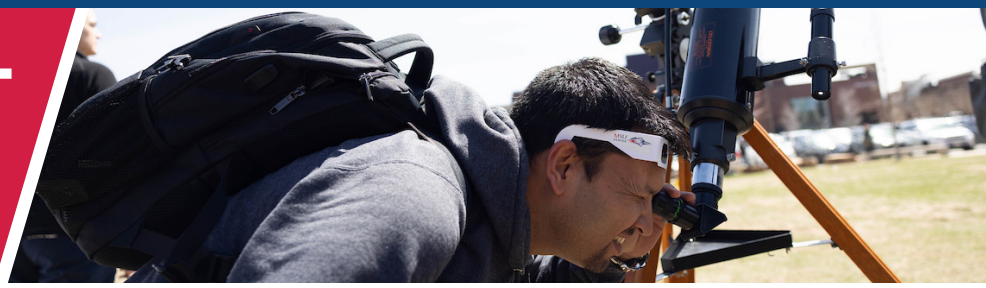
MSU DENVER COLLEGE OF LETTERS, ARTS AND SCIENCES

DEPARTMENT OF PHYSICS

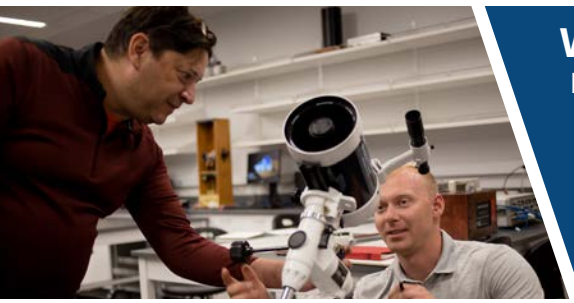


ABOUT US

Physicists study everything from the stars in the sky to the structure of atoms. Studying physics at MSU Denver will prepare you for careers or advanced studies in applied and theoretical physics. You will develop advanced mathematical and problem-solving skills as well as cutting-edge physics laboratory techniques, academia, engineering, aerospace, and wherever your imagination takes you.

MAJOR/MINOR

We offer majors in Physics (B.S. or B.A.), Physics with Secondary Science Teacher Licensure (B.A.), and Aerospace Physics (B.S.). Interested students can also minor in Physics, accompanying any major program.



WHAT MAKES US SPECIAL

We have small class sizes taught by experienced professors who encourage individual interaction between students and faculty, giving you that one-on-one attention that you need to succeed. We also have formed successful partnerships with Colorado-based aerospace industries, applied physics companies, engineering firms, research institutions, and national labs that offer multiple opportunities for internships and job placement.

INDUSTRY CAREERS

- Aerospace
- Astronomy
- Engineering
- Medical Physics
- Quantum Physics
- Materials Science
- Renewable Energy
- Satellite Data Analysis
- Science Writing
- Seismology

ALUMNI QUOTE

The MSU Denver Physics program was one of the most challenging and rewarding experiences of my life; imparting rigorous mathematical, logical, and computational tools from which to draw solutions for my "day job" as a software architect and opening my eyes to opportunities just beyond the horizon.

Thomas Johnson – Physics B.S. 2021

CONTACT US

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MSU DENVER

PHYSICS | Bachelor of Arts Bachelor of Science

Experiential Major Map

MSU DENVER College of Letters, Arts and Sciences

	First Year	Middle Years	Last Year
Cultivate Learning & Academic Excellence	• Develop foundational mathematics skills in calculus • Learn to use Canvas • Complete financial aid and scholarship applications	• Meet with a physics academic advisor to review your Degree Progress Report • Consider adding a minor or certificate in another field	• Meet with a physics academic advisor to ensure you are on track for graduation • Complete your senior experience course • Apply for graduation
Engage Globally and Locally	• Learn about tutoring available in the department and through CASE • Meet with a physics academic advisor • Join the Society of Physics Students	• Attend Society of Physics Students events • Attend the MSU Denver Undergraduate Research Conference • Pursue undergraduate research with a physics faculty member	• Take a leadership position in the Society of Physics Students • Serve as a TA or LA in a physics course • Pursue a physics internship
Prepare for Postgraduation Success	• Focus on building skills in foundational courses • Begin to develop a resume to track experiences and skills	• Attend a career fair • Attend career workshops & events offered by the C2 Hub • Continue to build your resume	• Discuss employment and/or graduate school options with physics faculty members • Review your resume with physics faculty members

Academic Success Checklist

- ☐ Discover library resources
- ☐ Book an appointment with your academic advisor
- ☐ Visit the writing and tutoring center
- ☐ Complete FASFA and academic scholarship applications

Employment in Physics is projected to grow by 5.4 percent from 2024 to 2026.

Career Development Checklist

- ☐ Update your resume early & often
- ☐ Drop into the C2 Hub's Career Lab
- ☐ Secure an internship or career aligned part time job to develop essential skills for graduation

Career Information

What skills do employers want?

- Problem-solving skills
- Quantitative or qualitative modeling skills
- Laboratory and theoretical research skills

This major gives me the skills to:

- Critically analyze and solve complex problems
- Design and conduct experiments
- Perceive and define cause and effect relationships

What careers can I pursue?

- Physicist
- Astrophysicist
- Aerospace Physicist
- Condensed Matter Physicist
- Materials Scientist
- Research Scientist/Analysist

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