

A FEW WORDS FROM OUR GRADUATES

“The combination of small classes taught by talented faculty and modern facilities makes the physics program at the University of Hartford truly top-notch.

“For a program of its size, the range of classes offered is truly remarkable. As an undergraduate I was able to take classes usually reserved for graduate-level curricula, like Advanced Optics, Quantum Mechanics, and Special Relativity. I was even able to assist in some research and co-author a paper.

“The strength of the physics program at the University of Hartford is in the talent of its faculty and the small size of the classes. There is close interaction between students and faculty in the program, and as a result I was frequently exposed to external seminars and conferences, which really helped deepen and broaden my understanding of physics.”

Christopher J. Raymond '91

Physicist & Product Manager
B.S. in Physics (dual degree in Engineering)
Martin Scholar, Physics;
Hertford College, Oxford University, 1991
M.A. in Physics, Oxford University

“Personally, I found that the largest advantage of studying physics at the University of Hartford was the small student-to-faculty ratio. This made it easy to have one-on-one contact with helpful and supportive professors. I received a good deal of personal attention, guidance, and opportunity which aided my transition to graduate studies.”

Jessica Dunmore, '99

D.Phil. (Ph.D.), Physicist
B.S. in Physics, Martin Scholar, Physics;
Hertford College, Oxford University, 1999
D. Phil. in Physics, Oxford University

“Studying physics at the University of Hartford was one of the great academic experiences of my life, and the coursework prepared me well for both my graduate work at Johns Hopkins and for my current career as a professional science writer.

“I liked the fact that our upper-level classes were small, which allowed us as much access to the instructors as we needed. The small class sizes also fostered a collegial bond among the students, and this enhanced the

overall experience. I remember fondly the small group discussions that would take place before and after class and how often the relevant topics would carry over into the lectures.

“I also appreciated the flexibility of the curriculum at the University of Hartford. Each semester, in addition to my core courses, I would take one or two courses in a related subject that suited my interest—such as probability or physical chemistry.”

Jason Bardi '95

Science Writer
B.S. in Physics (dual degree in English)
M.A., Johns Hopkins University
Author of The Calculus Wars (Newton & Leibniz)

“I enjoyed my studies of physics at the University of Hartford because the professors were always encouraging you to think about things at a deeper level than you ordinarily would. I enjoyed the intellectual stimulation. My undergraduate study of physics helped me in my M.S. in Electro-Optics (Tufts). It was also an immense help in law school (Western New England College) and in my current work as a patent attorney. My B.S. in Physics helped me develop the logical and analytic mind necessary to understand scientifically complex inventions and legal issues.”

George Lyman '89

Patent Attorney
B.S. in Physics (dual degree in Engineering)
M.S. in Electro-Optics, Tufts University

“The physics department at the University of Hartford has given me the tools necessary to compete in the challenging world of network engineering. On a daily basis I utilize the skills I learned at the University to solve complex problems which require both critical thinking and a systematic approach to problem solving. In addition, the difficult material taught me to pay close attention to detail and think more analytically. Most important, however, the professors were always approachable and eager to help at every turn. I highly recommend the University of Hartford if you are looking for a solid, fun, difficult, and greatly rewarding experience studying physics.”

Steven Bub '97

Technology Specialist
B.S. in Physics

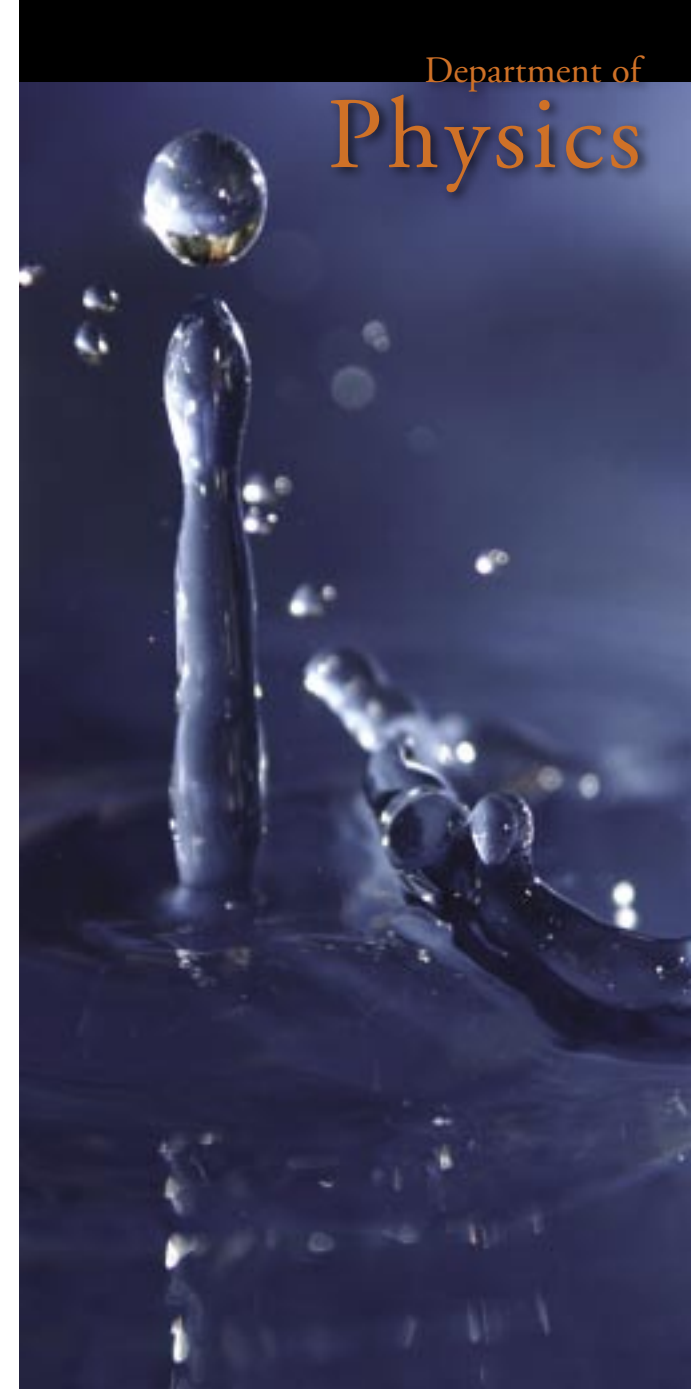


College of Arts and Sciences
UNIVERSITY OF HARTFORD

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UNIVERSITY OF HARTFORD

THE PHYSICS MAJOR

The University of Hartford is an excellent place to major in physics. There are several specific characteristics of our program that distinguish it from others. There is room for many unrestricted electives, thus allowing a student to tailor a program to his or her individual goals and interests. Since we are part of a university, physics students may take courses in a full range of fields such as engineering, computer science, mathematics, business, English,



music, art, and education. It is even possible to complete a dual major in these areas. Our physics majors have gone on to advanced study and careers in such varied fields as research, education, computer-related fields, patent law, and business.

Our classes are kept small. There are usually fewer than 25 students in each of our introductory courses. Our middle- and upper-level courses usually contain 10 or fewer students, sometimes fewer than five. There are even opportunities to take several one-on-one, upper-level courses with physics faculty, providing a unique opportunity for the student to learn a subject in greater depth. All of our upper-level lecture courses are taught by full-time faculty, each of whom has an earned Ph.D. in physics.

We are a teaching and research department. As dedicated and professional teachers we are available to our undergraduate students for help with courses and advising. As researchers, we enjoy involving undergraduates in the excitement of new discoveries about our world. Each of us is currently involved in research in an area of physics such as computational physics, geophysics, granular physics, astrophysics, fundamentals of quantum physics, and pedagogical advancement. This provides a wide range of opportunities for a student who wishes to become involved in a research project. Students have regularly presented their research results at both national and regional professional conferences. CEU awards (Conference Experience for Undergraduates) from the American Physics Society have been common.

There are opportunities to be involved in internships and cooperative education experiences with Connecticut technology companies, giving students valuable experience while earning an income. For those advanced majors interested in graduate school or in careers in education, we offer opportunities to teach under the guidance of full-time faculty in our introductory physics laboratory program.

With the completion of the Interactive Science, Engineering, and Technology (ISET) complex on the University of Hartford campus and the new Connecticut Center for Advanced Technology (CCAT) initiative, there will be more opportunities for students to work with applied lasers and optics on campus and at nearby companies.

Finally, our Society of Physics Students chapter has hosted lectures, films, and trips to places of special interest. Previous trips have included visits to local astronomy observatories, the Brookhaven National Laboratory, Princeton University's Institute for Advanced Study (where Einstein worked), and to physics colloquia at Yale.

WHAT YOU CAN DO WITH A DEGREE IN PHYSICS

In the latest American Institute of Physics survey, 96% of the nation's recipients of bachelor's degrees were employed or pursuing graduate work one year after graduation. The University of Hartford prepares you for either option. There are jobs in over 500 fields related to physics, including:

Automotive

- Composite materials*
- Fuel efficiency*
- Manufacturing*
- Environmental design*
- Recycling*
- Ozone depletion*
- Hazardous waste removal*
- Monitoring air pollution*
- Understanding wind energy*
- Solar energy*
- Low-emission cars*

Business

- Communications technology
- Computer science

Electronics

- Chip development*
- Laptops*
- Internet*
- Cordless phones*

Federally-funded research

- and development
- Government
- Health sciences
- Higher education
- Hospital, medical services
- Industry
- Lasers
 - Aerospace lasers (welding, drilling, for aerospace industry)*
 - Optical Information Storage*
 - Laser Eye Surgery*
 - Holography*
 - Grocery store scanners*
 - Fiber optics*
 - Skin resurfacing (or other laser technology)*

New Materials

- Teflon*
- Sports equipment*
- Musical instruments*
- Spandex*
- Nylon*
- Velcro*

Patent law

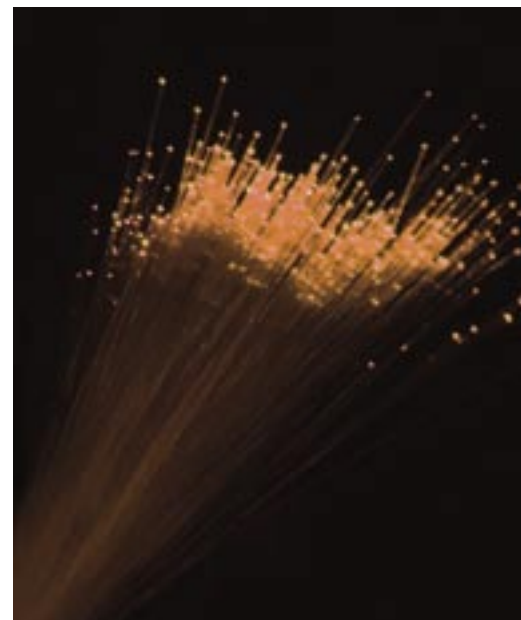
- Science education
- Secondary education

Superconductors

- Magnetic-levitation trains*
- Determination of brain's MEG*

Telecommunications

- Fiber optics*
- Cellular phones*
- Cordless phones*



Further Information

If you have questions or would like more information, please contact us by phone, fax, e-mail, or mail.

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