Physics (PHYS)
Graduate Degree Program
College: Computer, Mathematical, and Natural Sciences

Abstract
A fuller picture of the Department of Physics can be found on the
department's home page, http://umdphysics.umd.edu; only a summary
is provided here. The Department of Physics offers graduate courses
on general and specialized topics in advanced physics, and has active
research programs in many areas of current interest. The various
research groups can be browsed at http://umdphysics.umd.edu/
research/research-areas.html.

Financial Assistance
The Department offers both teaching and research assistantships.
Combined with fellowships in some cases, virtually all Ph.D. students
have full financial support for the duration of their graduate studies. In a
typical semester, approximately 50 teaching assistants and 160 research
assistants work in the Department, while some others are supported by
nearby government and industry facilities at which they are doing their
research. Summer research stipends for advanced graduate students are
customary, and a few summer teaching assistantships are available.

Contact
Graduate Admissions
Department of Physics
1309 John S Toll Physics Building
4150 Campus Drive
The University of Maryland
College Park, MD 20742
Telephone: 301.405.5982
Email: grad@physics.umd.edu
Website: http://www.umdphysics.umd.edu

Courses: PHYS (https://academiccatalog.umd.edu/graduate/courses/phys/)

Relationships: Biophysics (BIPH) (https://academiccatalog.umd.edu/graduate/programs/biophysics-biph/)
Chemical Physics (CHPH) (https://academiccatalog.umd.edu/graduate/programs/chemical-physics-chph/)

ADMISSIONS
General Requirements
• Statement of Purpose
• Transcript(s)
• TOEFL/IELTS/PTE (international graduate students (https://gradschool.umd.edu/admissions/english-language-proficiency-requirements/))

Program-Specific Requirements
• Letters of Recommendation (3)
• GRE Subject (Physics) (optional)
• CV/Resume

• Supplementary Application (https://gradschool.umd.edu/sites/gradschool.umd.edu/files/uploads/admissionsforms/umd supplementation applicationphys1.pdf)

The University of Maryland Department of Physics has a strong national
and international reputation, and receives a large number of applications
each year from well-qualified students. Consequently, admission to the
graduate degree program is quite selective.

Students who enter the graduate program are normally expected to have
strong backgrounds in physics, including intermediate-level courses in
mechanics, electricity and magnetism, physical optics, quantum physics,
and thermodynamics. Prior research experience and strong letters of
recommendation are highly valued. Good preparation in mathematics
is also desirable, especially for students who may pursue theoretical
physics research.

Application Deadlines
<table>
<thead>
<tr>
<th>Type of Applicant</th>
<th>Fall Deadline</th>
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<tbody>
<tr>
<td>Domestic Applicants</td>
<td></td>
</tr>
<tr>
<td>US Citizens and Permanent Residents</td>
<td>December 13, 2024</td>
</tr>
<tr>
<td>International Applicants</td>
<td></td>
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<tr>
<td>F (student) or J (exchange visitor)</td>
<td>December 13, 2024</td>
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<tr>
<td>visas; A,E,G,H,I and L visas and</td>
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<td>immigrants</td>
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RESOURCES AND LINKS:
Program Website: http://www.umdphysics.umd.edu
Application Process: https://gradschool.umd.edu/admissions (https://gradschool.umd.edu/admissions/)

REQUIREMENTS
• Physics, Doctor of Philosophy (Ph.D.) (https://academiccatalog.umd.edu/graduate/programs/physics-phys-phd/)
• Physics, Master of Science (M.S.) (https://academiccatalog.umd.edu/graduate/programs/physics-phys-mss/)

FACILITIES AND SPECIAL RESOURCES
Current research in the Department spans an immense range of
theoretical and experimental work on the forefront of knowledge, far too
large to describe here. Details of current research in the various fields,
faculty, and facilities involved can be found at the Departmental web site,

There are close academic ties with the Institute for Physical Science
and Technology on the campus; members of the Institute supervise
graduate research and also teach physics courses. Faculty members in
the departments of Astronomy and Electrical & Computer Engineering
also frequently direct thesis research.

The University of Maryland is located within the metropolitan area of
Washington, D.C., where it enjoys the proximity of a large number of
outstanding institutions, such as NASA’s Goddard Space Flight Center,
the Naval Research Laboratory, the National Institute of Standards
and Technology, the Johns Hopkins Applied Physics Laboratory, the
Department of Energy, the National Institutes of Health, the Library of Congress, and other federal institutions. The Department works closely with certain research groups at some of these institutions, and a significant fraction of graduate students do their primary research at off-campus facilities, co-directed by a member of the graduate faculty in the Department. In order to facilitate graduate study in the Washington area, the Department of Physics also has adjunct professors from certain government laboratories.