

Physics (MS, PhD)



PROGRAM OVERVIEW

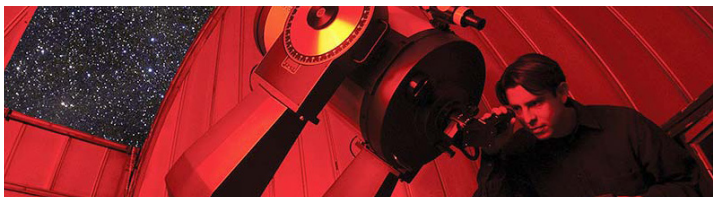
The Drexel University Department of Physics offers comprehensive graduate programs with opportunities to engage in cutting-edge scientific research. The programs emphasize interdisciplinary collaboration and provide students with access to state-of-the-art facilities and world-renowned faculty. Students are encouraged to explore various fields of physics before choosing a specialization, fostering a broad understanding and innovative approach to research.

Drexel's Physics programs are known for their strong emphasis on interdisciplinary collaboration, providing students with opportunities to work across departments and with external partners. The university's location in Philadelphia also offers access to a vibrant scientific community and numerous professional opportunities.

DEGREE CONCENTRATIONS

Students in the Physics graduate programs have opportunities to tailor their curricula to focus on several areas of focus such as:

- **ASTROPHYSICS**
- **BIOPHYSICS**
- **CONDENSED MATTER PHYSICS**
- **EXPERIMENTAL PARTICLE PHYSICS**
- **PHYSICS EDUCATION RESEARCH**



RESEARCH AREAS AND LABS

Faculty members in the Department of Physics are engaged in a wide range of research areas, including:

- **ASTROPHYSICS AND COSMOLOGY**
- **BIOPHYSICS AND MOLECULAR DYNAMICS**
- **HIGH-PERFORMANCE COMPUTING AND SIMULATIONS**
- **ULTRA-LOW TEMPERATURE AND CONDENSED MATTER PHYSICS**
- **NANOTECHNOLOGY AND MATERIALS SCIENCE**
- **PHYSICS EDUCATION RESEARCH**
- **PARTICLE PHYSICS AND QUANTUM FIELD THEORY**



COURSE OFFERINGS

Key courses in the graduate programs include:

- **MATHEMATICAL PHYSICS**
- **ELECTROMAGNETIC THEORY**
- **QUANTUM MECHANICS**
- **STATISTICAL MECHANICS**
- **ADVANCED DYNAMICS**

Special topics courses are also available, focusing on current research areas such as biophysics, particle physics, condensed matter physics, solid state physics and astrophysics.

GRADUATE ACTIVITIES & EVENTS

The Department of Physics offers various activities and events to enhance the graduate student experience:

- **PHYSICS GRADUATE STUDENT ASSOCIATION (PGSA)**
- **SEMINAR SERIES FEATURING GUEST SPEAKERS FROM ACADEMIA AND INDUSTRY**
- **ANNUAL KACZMARCZIK LECTURE, FEATURING RENOWNED RESEARCHERS SUCH AS NOBEL LAUREATES**
- **PARTICIPATION IN MAJOR WORLDWIDE RESEARCH COLLABORATIONS (E.G. SLOAN DIGITAL SKY SURVEY, ICECUBE NEUTRINO OBSERVATORY)**
- **GRADUATE-STUDENT-ONLY RESEARCH SEMINARS AND NETWORKING EVENTS**

FINANCIAL AID

Information about scholarships and aid is available on our program website. Several different funding options are available which may include merit aid, discounts, and assistantships. PhD students receive tuition remission, including generous stipends, throughout their program through teaching assistantships, research assistantships, and/or fellowships.

MS PROGRAM THESIS OPTIONS

Students in the MS program have the option of selecting to complete their degrees with or without a thesis. The **THESIS OPTION** is best for students who want to expand their background in research. This can be beneficial if the student expects to pursue their doctoral degree. The **NON-THESIS OPTION** allows the student to take more electives in lieu of conducting a research project.

CAREERS

Graduates of Drexel's Physics programs have pursued careers in academic and research institutions, high-tech industries (e.g. IBM, Intel), government laboratories (e.g. NASA, National Institutes of Health), financial firms, consulting agencies/startups and entrepreneurial ventures.

APPLICATION DEADLINES

We accept new students each Fall. While we review applications on a rolling basis, full consideration will be given to completed applications received by the following deadlines:

- **PHD:** December 1
- **MS:** May 15 (International), September 1 (Domestic)

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