The University of Toledo graduate programs in Physics and Astronomy aim to develop exceptional personal and professional scientific skills, and engage students in cutting edge research with a world-class faculty, all within a supportive and creative learning environment.
Master of Science in Physics/Materials Science

The M.S. degree in physics with a materials science option is available. For this degree, a student must complete 30 hours of graduate credit including:

- PHYS 6140 (Fundamentals of Modern Physics), 6/8540 (Structure, Defects, and Diffusion), 6/8550 (Thermodynamics and Phase Transformation in Condensed Systems), and an additional 12 hours of graduate course credit in Physics with six of the 12 hours numbered above 6000 (no degree credit for PHYS 5900, 6010 or 6020).
- The student must present a satisfactory thesis based on directed research for no more than eight hours of degree credit.
- The remainder of the 30 required credit hours may be chosen from any courses approved for graduate credit not previously elected, with the approval of the student’s committee.

In some cases, students working toward the Ph.D. may earn the M.S. without formal presentation of the M.S. thesis if they have: (1) passed the Ph.D. Qualifying Examination; (2) satisfied the course requirements for the M.S.; and (3) completed a research project under the supervision of a research advisor, resulting in acceptance for publication of a peer-reviewed research paper with the student as its first author. A substantial paper mainly written by the student is an acceptable substitution for a thesis and the peer review process substitutes for a thesis defense. Students meeting the above requirements may petition the department to grant the M.S. without formal presentation of a thesis.

We encourage you to contact individual faculty members directly to discuss research interests and opportunities.

Faculty contact information is available at: utoledo.edu/nsm/physast/research

What to expect when you graduate ...

Graduates of UToledo’s master’s program in physics typically advance to Ph.D. programs or take jobs in the industry.

Alumni of UToledo’s graduate programs in physics have landed positions at institutions such as: University of Chicago, Baker College, Rensselaer Polytechnic Institute, Ohio State University, Pacific Northwest National Laboratory, NASA, Intel Corporation, Boeing Company, Chicago and the Raytheon Company.

Admission requirements, guidelines and application information can be found at: utoledo.edu/graduate/apply.
If you have questions about the application process, contact 419.530.4723 or graduateonlineapplication@utoledo.edu.