Graduate Degrees and Programs

WPI offers graduate study leading to the master of science, master of engineering, master of mathematics for educators, master of business administration, and the doctor of philosophy degrees. Please see index on page 5 for details.

The schedule of courses over a period of time generally allows a student taking three or four courses per semester to complete the course requirements for most Master’s degree programs in about two years. Students taking two courses per semester complete the course requirements for the master of science or engineering degrees in about three years, or the master of business administration degree in about four years.

The Doctor of Philosophy (Ph.D.) Program
Available in the following disciplines:
- Biotechnology
- Biomedical Engineering
- Joint Ph.D. in Biomedical Engineering and Medical Physics with UMass Medical School
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Electrical and Computer Engineering
- Fire Protection Engineering
- Interdisciplinary Studies
- Manufacturing Engineering
- Materials Science and Engineering
- Mathematical Sciences
- Mechanical Engineering
- Physics

Master of Science (M.S.) Degree Programs
Available, on a full-time and part-time basis, in the following disciplines:
- Applied Mathematics
- Applied Statistics
- Biochemistry
- Biology/Biotechnology*
- Biomedical Engineering
- Bioscience Administration
- Chemical Engineering*
- Chemistry
- Civil Engineering
- Computer Science
- Construction Project Management
- Electrical and Computer Engineering
- Environmental Engineering
- Financial Mathematics
- Fire Protection Engineering
- Industrial Mathematics
- Information Technology
- Interdisciplinary Studies
- Impact Engineering
- Manufacturing Engineering Management
- Power Systems Management
- Systems Engineering
- Systems Modeling
- Marketing and Technological Innovation
- Manufacturing Engineering
- Materials Process Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Operations Design and Leadership
- Physics
- System Dynamics

*available only on a full-time basis

Master of Engineering (M.E.) Programs
Offered in:
- Biomedical Engineering
- Clinical Engineering
- Environmental Engineering
- Master Builder Program

Interdisciplinary Master’s and Doctoral Programs
WPI encourages the formation of interdisciplinary master’s and doctoral programs to meet new professional needs or the special interests of particular students. For specific information on interdisciplinary master’s and doctoral programs see page 70.

Master of Mathematics for Educators (M.M.E.) Program
WPI offers a Masters in Mathematics for Educators, a part-time program for teachers of mathematics at the middle school, secondary, and community college levels. Students in this program may earn a content-based degree afternoons and evenings while still teaching full time. Taught by professors of mathematics at WPI, the program is designed to permit the teachers to learn from professors’ research interests and includes an understanding of current developments in the field. Scholarship aid, which covers approximately 40% of the cost of tuition, is available to qualified participants. This degree may be used to satisfy the Professional License requirements of Massachusetts for teachers holding the Initial License.
Master of Business Administration (M.B.A.) Program
Provides students with strategies for the successful application of technology to complex business environments. The degree requirements are described in this catalog and in a separate brochure available from the Department of Management at 508-831-5218, or on the web at www.mgt.wpi.edu/Graduate/MBA/.

Combined Bachelor’s/Master’s Program
The Combined Bachelor’s/Master’s Program is a unitary program leading a student to a bachelor of science degree and to a master of business administration, master of engineering, or master of science degree. The purpose of the Combined Bachelor’s/Master’s Program is to give WPI undergraduates an opportunity to earn a bachelor’s and a master’s degree from WPI concurrently in less time than would be required if the student were to complete work on the bachelor’s degree before beginning work on the master’s degree. To gain the full benefit of this program, a student should apply for the Combined Program well before the bachelor’s degree is completed. Application at the beginning of the junior year is recommended.

For the master of science and master of engineering degrees, the Combined Program typically allows a student to complete requirements for both degrees in about one more year of full-time study than would be required to earn the bachelor’s degree. With careful planning, a student can obtain a similar reduction in the amount of time required to earn an M.B.A. Undergraduate students may apply up to four courses to the master’s degree (varies by department), with prior written approval from professors and the academic department. The M.S. portion of the program must be completed as a full-time student. See department descriptions for more information.