

MASTER OF SCIENCE IN PHARMACEUTICAL SCIENCES



EXPERTISE. INFLUENCE. IMPACT.

The Master of Science in Pharmaceutical Sciences (PSC) program at the University of Maryland School of Pharmacy provides advanced education and cutting-edge training to prepare students for research and leadership positions in pharmaceutical and biotechnology companies and in the federal government. Our 16-month, full-time program, based at the Universities at Shady Grove in Rockville, Md., integrates basic and applied pharmaceutical sciences with hands on laboratory research internships and can be customized to meet each student's career goals.

Laboratory research internships, project design and management training, and the completion of a capstone project are hallmarks of our program. A thesis is not required for this program. MS students have opportunities to do research internships at the School of Pharmacy with leaders in their fields, outside the School at leading pharmaceutical and biotechnology companies, and in federal government laboratories.

HIGHLIGHTS

Fast Track to Employment

The MS program prepares students for exciting careers in research, development, project management and biotechnology at pharmaceutical companies and government agencies.

Prime Location

Close to premier pharmaceutical and biotechnology companies, research labs, and federal agencies that offer potential internships.

Learn from Leaders in the Field

Our faculty are nationally and internationally recognized leaders in their research fields. With our mentor-driven approach, students work directly with faculty to create a plan of study optimized to meet their individual interests.

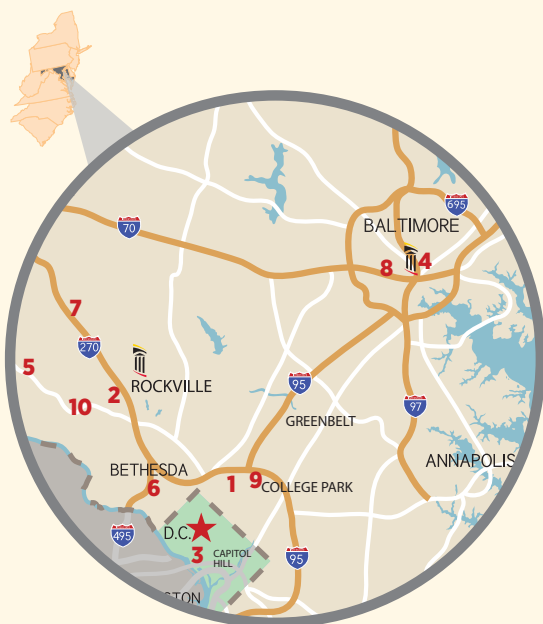
Access to State-of-the-Art Facilities

Students conducting research at the School of Pharmacy can take advantage of our cutting-edge centers and facilities including the Computer-Aided Drug Design Center, Mass Spectrometry Center, Metallotherapeutics Research Center, Nuclear Magnetic Resonance facility, Applied Pharmaceutics Lab, Bio- and Nano-technology Center, the Center of Excellence in Regulatory Science and Innovation, and more.

Distance Learning

Courses are held in-person and via synchronous distance learning technology at the Universities at Shady Grove in Rockville, Md.

Proximity to Government Agencies, Industry/Biotech Companies, and Other Research Institutions



UNIVERSITY OF MARYLAND
SCHOOL OF PHARMACY

Baltimore and Rockville

- 1 Food and Drug Administration
- 2 I-270 Biotech Corridor
- 3 Institute of Medicine
- 4 Johns Hopkins University
- 5 MedImmune
- 6 National Institutes of Health
- 7 National Institute of Standards and Technology
- 8 University of Maryland BioPark
- 9 University of Maryland, College Park
- 10 Institute for Bioscience and Biotechnology Research

CURRICULUM

The MS in PSC curriculum includes a set of core courses that all students must take focused on cutting-edge areas of pharmaceutical science. There is no thesis required for the MS in PSC, but students are required to complete and present a capstone project in their last semester that highlights the research and findings from their biopharmaceutical research internship. Students are assigned a faculty mentor, who helps guide the student's coursework and capstone project to meet the individual interests of the student.

Sample Course of Study and Credit Hours

YEAR 1 FALL SEMESTER [10-11 credits]	YEAR 1 SPRING SEMESTER [8-10 credits]	YEAR 1 SUMMER SEMESTER [3-8 credits]	YEAR 2 FALL SEMESTER [6-11 credits]
Principles of Drug Discovery [3]	Principles of Drug Development [3]	Biopharmaceutical Research Internship [1-6]	Biopharmaceutical Research Internship [1-6]
Bioanalytical Methods [3]	Molecular Spectroscopy and Imaging [2-3]		MS Departmental Seminar [1]
Ethics and Biostatistics [2]	Journal Club/Seminar [1]		
Journal Club/Seminar [1]	Lab Rotation [1-2]		
Lab Rotation [1-2]	Translational Pharmaceutical Sciences [1] +Elective(s)	Research Project Design and Management [2]	Biopharmaceutical Capstone Project [2]

Biopharmaceutical Research Internship and Capstone Project

Students enrolled in the MS in PSC program will complete a biopharmaceutical research internship and capstone project under the guidance of researchers and scientists in academia, industry, and government. Students will have the opportunity to intern at the Institute for Bioscience & Biotechnology Research (IBBR), the National Institute of Standards and Technology (NIST), and other facilities, or with a faculty mentor at the School of Pharmacy. These rotations will provide students with real-world experience, creating a network of professional contacts.

Why should I obtain the MS in Pharmaceutical Sciences?

- ▶ Our full-time, 16-month program provides students with the project design, project management, and laboratory skills to be successful in high-level research positions in industry and government.
- ▶ Students obtain hands-on experience in the lab, working alongside prominent researchers who are widely recognized for their contributions to their fields.
- ▶ According to the U.S. Bureau of Labor Statistics, jobs in the pharmaceutical sciences field are projected to grow at a rate of 13% over the next 10 years. Pharmaceutical scientists with MS degrees earn starting salaries of approximately \$65,000.

TUITION

Please see website for current tuition rates and fees.

HOW TO APPLY

Prospective candidates must complete the University of Maryland, Baltimore Graduate School's online application, as well as submit the following materials:

- ▶ Official transcripts
- ▶ Three letters of recommendation
- ▶ A statement of academic goals and research interests
- ▶ CV/Resume
- ▶ TOEFL/IELTS Scores (required for international students)

Applications are reviewed on a rolling basis. For best consideration, it is strongly recommended that you apply by March 15. Applications will be accepted until May 1.

Additional information on the admissions process is available at pharmacy.umaryland.edu/academics/ms-pharmaceutical-sciences/how-to-apply/.

CONTACT

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