

MOLECULAR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS (MPET) – POSTDOCTORAL MASTERS

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Application

Candidates must complete a Postdoctoral Master's Degree Application form. This form is available on the MCGSBS Master's Programs intranet site. Supporting documents include a program fee agreement form, transcripts from previous colleges and two letters of recommendation - one preferred from your direct supervisor/manager.

Eligibility

Applicants must be employed at Mayo Clinic. The employment appointment, as documented at the time of application, must be greater in length than the time required for completion of all requirements of the program. Eligible roles include: Mayo Clinic physician, scientist, fellow or resident with a doctoral degree in a discipline applicable to clinical research or medical student who plans to have a research career (except for CTS). Visiting research fellows are eligible. However, visiting clinicians, research trainees and research collaborators are not eligible.

Time Requirement

Applicants must have adequate protected time to complete course and research requirements within designated program length. Applications with inadequate protected time to complete the program will not be accepted. Time to completion can vary by program and Mayo Clinic role from two to five years. All scholars must be in their program a minimum of 1 year in order to meet the MCGSBS residency requirement. Scholars must complete all program requirements within 5 years.

Students must have dedicated time for their program commitments and abide by course attendance requirements as defined in course syllabi. Students must be appropriately engaged in their program and demonstrate continued progress towards graduation.

Registration Requirement

At least 75% of the coursework for the Master's degree must be completed in MCGSBS. It is expected that a minimum of one year will be devoted to research.

Minimum Credit Requirements

Students must complete a minimum of 45 credits, which includes a maximum of 16 Research credits. (See Requirements tab within each track for specific course requirements.)

Transfer Credits

A total of 9 didactic credits may be transferred into the program. For more details, see the Credit Conversion, Transfer, Waiver, and Substitution Policy on the MCGSBS intranet site.

The Master's degree track in Molecular Pharmacology and Experimental Therapeutics offers a Master's degree within the Biomedical Sciences Program. This track is only open to residents and research fellows in the Mayo Clinic School of Graduate Medical Education.

Course Requirements

The curriculum for the Basic Science Master's degree consists of 45 credits, which can include a maximum of 16 Research credits.

Code	Title	Hours
MGS Requirements		
Students are expected to complete 12 credits of introductory Biomedical Sciences courses chosen from the core curriculum. ¹		12
Track Requirements		
MPET 5900	Molecular Pharmacology and Receptor Signaling	3
MPET 5808	Introduction to Molecular Pharmacology	4
MPET 6805	Drug Metabolism and Pharmacogenomics	2
Track Tutorials		
Select 3 credits or 2 courses of the following:		3
MPET 6400	Introduction to Principles of Pharmacokinetics	
MPET 6655	Mechanisms of Cell Growth and Death	
MPET 6811	Tutorial in Cardiovascular Pharmacology	
MPET 6813	Tutorial in Systems Pharmacology	
MPET 6814	Cellular Pharmacology of Agents that Target Cancer	
MPET 6815	Neurobehavioral Pharmacology	
Advanced Coursework		
Select any courses approved for graduate credit; select in consultation with your mentor.		2
Research		
MGS 6100	Master's Thesis Proposal	3
MGS 6840	Master's Research (4 cr/qtr - 4 qtrs required)	16
Total Hours		45

¹ These 12 credits must include MGS 6000 Responsible Conduct of Research.

Research

Students will identify a research mentor on entry into the degree program. It is assumed that the equivalent of 12 months will be spent in full-time academic work, which will consist primarily of research, but will also involve advanced course work.

Suggested Sequence

This is a suggested sequence based on a summer term start. Individual course plans may vary depending on true start date, program, employment/personal commitments, and research interests. Be sure to confirm you have met your requirements using your degree planning tool. Course offerings may vary slightly. Current course offerings are posted in the course catalog.

Code	Title	Hours
First Year - Summer Term		
MGS 6000	Responsible Conduct of Research	1

Code	Title	Hours
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First Year - Fall Term

BMB 5100	Chemical Principles of Biopolymer Systems	2
MPET 5808	Introduction to Molecular Pharmacology	4
MPET 6800	Research Seminars in Pharmacology	1

Code	Title	Hours
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First Year - Winter Term

BMB 5150	Molecular Cell Biology	2
MPET 6805	Drug Metabolism and Pharmacogenomics	2

Code	Title	Hours
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First Year - Spring Term

MPET 5900	Molecular Pharmacology and Receptor Signaling	3
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Electives