

PHARMACOLOGY & TOXICOLOGY, M.S.

Build your mastery of how drugs and chemicals work and be in the front lines of drug innovation with a pharmacology and toxicology graduate degree. Saint Joseph's Master of Science in Pharmacology and Toxicology program combines didactic course study with hands on laboratory research. Our thesis-based curriculum (offered as part time or full time) emphasizes the integration of pharmacology and toxicology with biochemistry, cell and molecular biology, physiology, statistics and experimental design. You'll gain a solid knowledge foundation and hands-on research skills to pursue pharmacology and toxicology careers in academia, industry (pharmaceutical and biotech) or government. You'll conduct independent research under the guidance of faculty researchers, defend a master's thesis and present research findings at local and national scientific conferences. You also have the option to work toward the Pharmacology and Toxicology PhD degree.

Learning Goals and Outcomes

Outcome 1: Students will demonstrate knowledge foundation and critical evaluation of scientific literature

Outcome 2: Student will demonstrate effective and accurate oral communication skills relates to scientific research

Outcome 3: Students will demonstrate ability to identify scientific questions and formulate hypotheses

Outcome 4: Students will design and perform experiments to answer scientific questions or test hypotheses

Outcome 5: Students will present critical data analysis with appropriate statistical methods

Outcome 6: Students will demonstrate the ability to draw evidence-based conclusions

Outcome 7: Students will clearly and accurately present research results in writing

Outcome 8: Students will engage in personal development/leadership/teamwork

Requirements

Code	Title	Hours
PHT 703	Advanced Toxicology	3
PHT 721	Advanced Medicinal Chem/Pharm	4
PHT 752	Intro Scientific Data Analysis	1
PHT 801	Research Lit in Pharm/Tox	1
PHT 811	Research Techniques Laboratory	1
PHT 821	Molecular Pharmacology	3
PHT 880	Pharm Tox Seminar	1
Electives: PHT, PHS or others 700-800 level		6
PHT 799	Master's Research	10
Total Hours		30