



**INDIANA UNIVERSITY**  
SCHOOL OF MEDICINE  
Graduate Division

Sherry F. Queener, Ph.D.  
Director of the Graduate Office, IUPUI  
Associate Dean of the Indiana University Graduate School

Wednesday, June 04, 2008

Dear Dr. Queener,

Please find attached revised versions of the M.S. degrees in Pharmacology and in Toxicology for your consideration. These changes will allow these M.S. curricula to work with the new Indiana University School of Medicine BioMedical Gateway (IBMG) open enrollment program courses.

Please let me know if I can answer any questions. Thank you.

Yours sincerely,

A handwritten signature in black ink that reads "S. J. Rhodes".

Simon J. Rhodes, Ph.D.  
Associate Dean for Graduate Studies  
Indiana University School of Medicine

## MS Curriculum Pharmacology

The curriculum in Pharmacology is formulated by the Curriculum Committee and is described below. It comprises required and elective courses, research, and the thesis. The student must satisfactorily complete all aspects of the curriculum in Pharmacology to obtain the master's degree. A student must maintain a grade point average of 3.0 (on a 4.0 scale) and obtain at least the grade of "B" or "P" in all required courses. If a student earns less than a "B" in a required course, the student will need to repeat the course or take another course that will satisfy the requirement. A minimum of 35 hours is required to fulfill the graduate requirements for a MS in Pharmacology. All MS students will be required to take a minimum of 15 hours of coursework; of that, 4 hours will be rotations, and a minimum of 20 hours of research and seminar. In addition to the required credit hours, the student must complete one of the following:

- Prepare and defend a Master's thesis OR
- If approved by the Research and Advisory Committees, a published work may be accepted in place of a thesis.

### Year 01

Fall Semester	F801 Rotation 1	2 Cr
	F801 Rotation 2	2 Cr
	*G715 Biomedical Science I <i>Biochemical Basis of Biological Processes</i>	3 Cr
	*G716 Biomedical Science II <i>Molecular Biology and Genetics</i>	3 Cr
	*G717 Biomedical Science III <i>Cellular Basis of Systems Biology</i>	3 Cr
Spring Semester	G747 Principles of Pharmacology	1 Cr
	G748 Principles of Toxicology	1 Cr
	Electives**	2 Cr
	F825 Research in Pharmacology	2 Cr
Summer Semester	G890 Methods in Molecular Biology and Pathology	3 Cr
	F825 Research in Pharmacology	5 Cr

### Year 02

Fall Semester	F830 Seminar in Pharmacology	1 Cr
	Electives**	1 Cr
	F825 Research in Pharmacology	6 Cr
Spring Semester	F825 Research in Pharmacology	6 Cr

### Year 03 (until completion)

	F825 Research in Pharmacology	1-6 Cr
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\* The student will take 3-6 credits from the Biomedical Science courses as decided by the graduate program director on an individual student basis

\*\*Possible electives include, but are not limited to: F809 Neuropharmacology, F810 Pharmacology of Autonomic Nervous Systems, F840 Advanced Topics in Pharmacology; the student should consult their mentor to determine what electives best fit the student's course of study.

## MS Curriculum Toxicology

The curriculum in Toxicology is formulated by the Curriculum Committee and is described below. It comprises required and elective courses, research, and the thesis. The student must satisfactorily complete all aspects of the curriculum in Toxicology to obtain the master's degree. A student must maintain a grade point average of 3.0 (on a 4.0 scale) and obtain at least the grade of "B" or "P" in all required courses. If a student earns less than a "B" in a required course, the student will need to repeat the course or take another course that will satisfy the requirement. A minimum of 35 hours is required to fulfill the graduate requirements for a MS in Toxicology. All MS students will be required to take a minimum of 15 hours of coursework; of that, 4 hours will be rotations, and a minimum of 20 hours of research and seminar. In addition to the required credit hours, the student must complete one of the following:

- Prepare and defend a Master's thesis OR
- If approved by the Research and Advisory Committees, a published work may be accepted in place of a thesis.

### Year 01

Fall Semester	F801 Rotation 1	2 Cr
	F801 Rotation 2	2 Cr
	*G715 Biomedical Science I <i>Biochemical Basis of Biological Processes</i>	3 Cr
	*G716 Biomedical Science II <i>Molecular Biology and Genetics</i>	3 Cr
	*G717 Biomedical Science III <i>Cellular Basis of Systems Biology</i>	3 Cr
Spring Semester	G747 Principles of Pharmacology	1 Cr
	G748 Principles of Toxicology	1 Cr
	Electives**	2 Cr
	F812 Research in Toxicology	2 Cr
Summer Semester	G890 Methods in Molecular Biology and Pathology	3 Cr
	F812 Research in Toxicology	5 Cr

### Year 02

Fall Semester	F826 Seminar in Toxicology	1 Cr
	Electives**	1 Cr
	F812 Research in Toxicology	6 Cr
Spring Semester	F812 Research in Toxicology	6 Cr

### Year 03 (until completion)

F812 Research in Toxicology	1-6 Cr
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\* The student will take 3-6 credits from the Biomedical Science courses as decided by the graduate program director on an individual student basis

\*\*Possible electives include, but are not limited to: F819 Chemical Carcinogenesis, F820 Chemotherapeutics, F841 Advanced Topics in Toxicology; the student should consult their mentor to determine what electives best fit the student's course of study.