Plan of Study

Upon entry into the program, students are expected to have completed the equivalent of two semesters of anatomy and physiology. Students that have not completed prior course work in anatomy and physiology are required to complete one of the following options: BIOL 301 and 302 or BIOL 203 and 204 or BMS 510 (Gross Anatomy) or equivalent.

FIRST YEAR
Fall Semester

______ (3) BCHM 561 - General Biochemistry I*
______ (3) BMS 520 - Systemic Mamillian Physiology I*
______ (3) HSCI 560 - Toxicology*
______ Tract Requirement*
______ (1) HSCI 696 - Seminar in Health Sciences*
______ (0) CHM 605 - Safety in the Laboratory*

Spring Semester

______ (3) BCHM 562 - General Biochemistry II*
______ (3) HSCI 562 - Analytical Toxicology and Path*
______ Tract Requirement*
______ (3) BMS 521 - Systemic Mamillian Physiology II*
______ (1) HSCI 696 - Seminar in Health Sciences*

SECOND YEAR
Fall Semester

______ (1) MCMP 625 - Grant Writing*
______ Tract Requirement*
______ Tract Requirement/Selective*
______ Selective*
______ (1) HSCI 696 - Seminar in Health Sciences (attending)

Spring Semester

______ (1) HSCI 696 - Seminar in Health Sciences (attending)
______ (8) HSCI 699 - Research PhD Thesis

Summer Semester

______ (3) HSCI 575 - Introduction to Environmental Health*
______ Tract Requirement/Selective*
______ Selective*
______ Selective*
______ (5) HSCI 699 - Seminar in Health Sciences (attending)
Toxicology Graduate Program  
M.S. Non-thesis

Plan of Study

**Summer Semester between Years 1 & 2:** Given this program does not officially involve thesis research, students are strongly encouraged to obtain an internship relevant to their career goals over the summer.

**Writing requirement:** A critical written evaluation of a topic related to toxicology is required to receive the nonthesis M.S. The toxicant report in HSCI562 meets this requirement.

**Track Requirements** – Students may choose either the laboratory-based or public health based track for the non-thesis MS in toxicology, completing the respective requirements below.

**Laboratory-focused track:**
- BMS 524*  Intro to Confocal (1cr) Spring
- BMS 635*  Cell and Tissue Culture (2cr) Spring
- HSCI 547* Environmental Epidemiology (2cr), Fall
- STAT 503* Statistical Methods for Biology (3cr), Fall, Spring
- HSCI 690* Special topic/individual research (2cr), Fall, Spring, Summer

**Public Health-focused track:**
- HK 510*  Intro Quant Methods Of Pub Health (3cr), Fall
- HSCI 547* Environmental Epidemiology (2cr), Fall
- HK 676*  Theoretical Foundations of Health Behavior (3cr), Fall
- COM 576*  Health Communication (3cr) Fall, Spring

**Selectives (alternate selectives may be approved by the student’s advisory committee)**

**Laboratory-focus courses:**
- MCMP 617  Neuro Molecular Targets (2cr), Spring, even numbered years
- BIOL 602  Cellular Neurobiology (3cr) Fall
- BMS 525  Principles Of Neuroanatomy (3cr) Summer
- BIOL 538  Molecular, Cellular, and Developmental Neurobiology (3cr) Spring (BIOL 516 is a prereq)
- BIOL 562  Neural Systems (3cr) Spring
- BIOL 695  Special Lectures in Neuroscience (2cr) Fall
- BIOL 515  Molecular Genetics (2cr) Spring
- BIOL 516  Molecular Biology Of Cancer (2cr) Spring

**Public Health-focus courses:**
- HK 687  Public Health Administration, Spring
- HK 581  International Health, Fall

**Others**
- HSCI 545  Adv Topics Exposure Assessment (2cr), Spring
- HSCI 570  Intro To Medical Diag Imaging (3cr), Spring
- ENTM 611  Toxicol of Insecticide (3cr) Fall, even numbered years
- MCMP 440  Pathophysiology (3cr) Spring
- BIOL 559  Endocrinology (3cr) Fall
*Required course. Students entering the Toxicology Graduate Program are expected to be proficient in physiology, biochemistry and molecular biology. Students can be accepted into the program without this pre-requisite knowledge but must immediately complete the relevant course work.

A minimum of 30 coursework credit hours are required by the School for the M.S. nonthesis degree. No more than 6 credit hours of coursework at the 300 or 400 level is allowed to form part of the student's M.S. degree plan of study. Three selectives are required and will be chosen in consultation with the student's Major Professor and advisory committee. The student's advisory committee may approve alternative coursework in a plan of study that will assist the student in their thesis research.

NOTE: Graduate courses taken while registered as a graduate student at Purdue University may be considered for fulfilling the plan of study requirements only if the student has received grades of C or better. For courses at the 300 or 400 level taken as a graduate student or courses that represent either undergraduate or graduate excess credit or transfer credit, grades of B or better are required for fulfilling plan of study requirements.