

# Toxicology (PhD)

## Degree Requirements

Code	Title	Hours	Counts towards
<b>Core Courses</b>			<b>33</b>
TOX 701	Fundamentals of Toxicology		
TOX 710	Molecular and Biochemical Toxicology		
TOX 715	Environmental Toxicology		
TOX 801	Toxicology Seminar (enroll every semester)		
TOX 820	Special Problems In Toxicology (Lab Rotations)		
TOX 820	Special Problems In Toxicology (Responsible Conduct of Research)		
TOX 820	Special Problems In Toxicology (Professional Development)		
ST 511	Statistical Methods For Researchers I (or equivalent)		
GN 701	Molecular Genetics		
CBS 770	Cell Biology		
TOX 895	Doctoral Dissertation Research		
<b>Elective Courses</b>			<b>39</b>
See "Elective Courses" listed below			
<b>Total Hours</b>			<b>72</b>

## Elective Courses

Code	Title	Hours	Counts towards
<b>"Elective Courses" are approved in conjunction with the academic committee to meet 72 total hours</b>			<b>39</b>
TOX 704	Chemical Risk Assessment		
CBS 771	Cancer Biology		
BIO 588	Neurobiology		
BIT 510	Core Technologies in Molecular and Cellular Biology		

BIT 562	Gene Expression Analysis: Microarrays
BIT 567	PCR and DNA Fingerprinting
BIT 568	Genome Mapping
BIT 569	RNA Purification and Analysis
BIT 595	Special Topics
BCH 553	Biochemistry of Gene Expression
BCH 701	Macromolecular Structure
BCH 703	Macromolecular Synthesis and Regulation
BCH 705	Molecular Biology Of the Cell
BCH 761	Advanced Molecular Biology Of the Cell
CBS 754	Epidemiology II
CBS 762	Principles of Pharmacology
CBS 795	Special Topics in Comparative Biomedical Sciences
CH 572	Proteomics
GN 735	Functional Genomics
HS 707	Environmental Stress Physiology
MB 751	Immunology
MEA 540	Principles of Physical Oceanography
PHY 503	General Physiology I
PHY 504	General Physiology II
PHY 780	Mammalian Endocrinology
ST 512	Statistical Methods For Researchers II

\* Other courses must be approved in conjunction with the academic committee.

## Faculty

### Full Professors

Ronald E. Baynes

James C. Bonner

Matthew Breen

David Buchwalter

William Gregory Cope

Jane A. Hoppin

Cathrine Hoyo

Michael Hyman

Detlef R. Knappe

Seth William Kullman

Jerry "Mac" Law

Gerald Andre LeBlanc

Carolyn Jane Mattingly

Elizabeth Guthrie Nichols

Jun Ninomiya-Tsuji

Heather Patisaul

Emilie Francesca Rissman

Richard M. Roe

Robert Charles Smart

Yoshiaki Tsuji

Fred Andrew Wright

Jeffrey A. Yoder

Denis Fourches

Kurt Marsden

---

## Practice/Research/Teaching Professors

Jonathan Hall

David Allen Skaar

Elizabeth E. A. Thompson

---

## Associate Professors

David Lawrence Aylor

Scott M. Belcher

Shobhan Gaddameedhi

Nanette M. Nascone-Yoder

Antonio Planchart

David Michael Reif

Hong Wang

Yihui Zhou

---

## Assistant Professors

Michael S. Bereman

Michael Anthony Cowley