

IGPBS - BIOCHEMISTRY & MOLECULAR BIOLOGY (PHD AND MD/PHD)

Overview

Graduate Committee

Dr. Kaustubh Datta (Chair & Program Director), Dr. Shantaram Joshi (Co-Chair), Dr. Rebecca Deegan, Dr. Punita Dhawan, Dr. Kate Hyde, Dr. Moorthy Ponnusamy, Dr. Michel Ouellette, Dr. Amar Singh, and Dr. Ying Yan

The IGPBS - Biochemistry and Molecular Biology doctoral program is designed to provide a comprehensive knowledge of the biochemistry and molecular biology of living organisms and includes the research and training experience necessary for the development of independent investigators.

PhD Curriculum

Coursework

Each student's Supervisory Committee will determine the appropriate curriculum based on the student's academic background and interests.

The following are required of all IGPBS - Biochemistry & Molecular Biology doctoral students: course:

Code	Title	Credit Hours
Required Courses		
IPBS 801	FUNDAMENTALS OF BIOMOLECULES *	3
IPBS 802	MOLECULAR CELL BIOLOGY *	2
IPBS 803	FUNDAMENTALS OF RECEPTORS & CELL SIGNALING *	2
BMB 815	METABOLISM *	2
BMB 915	PROTEINS & NUCLEIC ACID *	3
BMB 896	RSCH OTHER THAN THESIS (or IPBS 896)	1-8
BMB 970	SEMINAR (every semester)	1
BMB 975	CRITICAL THINKING AND APPLICATIONS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY *	3
BMB 999	DOCTORAL DISSERTATION	1-15

Responsible Conduct in Research (RCR) / Ethics Training

*indicates course must be completed prior to Comprehensive Exam

MD/PhD Curriculum

Coursework

Upon successful completion of the first two years of the medical school curriculum, the IGPBS - Biochemistry & Molecular Biology Graduate Committee will **waive** the requirement for completing the **IPBS curriculum** (IPBS 801, 802, 803), **BMB 815**, and **BMB 915**. The following courses are required for the MD/PhD degree:

Code	Title	Credit Hours
Required Courses		
BMB 896	RSCH OTHER THAN THESIS	1-8

BMB 970	SEMINAR (every semester)	1
BMB 975	CRITICAL THINKING AND APPLICATIONS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY	3
BMB 999	DOCTORAL DISSERTATION	1-15

Responsible Conduct in Research (RCR) / Ethics Training

NOTE: See Graduate Program Director for requirements regarding Comprehensive Exam.