

MOLECULAR GENETICS AND CELL BIOLOGY (MS)

Curriculum

Graduate Committee

Dr. Gargi Ghosal (MS Program Director), Dr. Andrew Dudley ([Co-Chair & Program Co-Director](#)), Dr. Kyle Hewlett ([Co-Chair & Program Co-Director](#)), Dr. Jennifer Black, Dr. Kishor Bhakat, Dr. Bin Duan, , and Dr. Shantaram Joshi

The MS in Molecular Genetics & Cell Biology is a Thesis Track program that includes coursework and research, and is designed to enhance a career in biomedical research, medicine or dentistry.

MS Curriculum

The curriculum is uniquely designed to complement each student's background as well as their master's thesis research project. The MS degree is awarded upon completion of the approved curriculum, passing the comprehensive examination, and completion of a research project that results in a written thesis with an oral defense. Completion of degree requirements generally requires 2 years.

Coursework

Code	Title	Credit Hours
Required Courses		
GRAD 800	RESPONSIBLE CONDUCT IN RESEARCH TRAINING	0
MGCB 912	MODERN APPROACHES IN CELL BIOLOGY & MOLECULAR GENETICS	3
MGCB 907	TEACHING AND RESEARCH PRESENTATION SKILLS	2
IPBS 802	MOLECULAR CELL BIOLOGY	2
MGCB 899	MASTERS THESIS	1-9
MGCB 903	JOURNAL CLUB (each Fall and Spring)	1
MGCB 970	SEMINAR (each Fall and Spring)	1

Atleast one Elective graduate-level course

These courses must be graded (not Pass/Fail) and will be identified by the student's Advisory Committee based on the student's background and research area. The specific curriculum will be designed in consultation with the research mentor and approved by the MGCB Graduate Program Committee