OVERVIEW

The goal of the Microbiology and Molecular Genetics Master’s Programs is to prepare students for careers in science. The program provides an increased knowledge base in both microbiology and molecular genetics as well as the ability to think critically, communicate scientific knowledge clearly and perform independent scientific research. In addition to the Microbiology and Molecular Genetics M.S. and Accelerated Master’s Program (AMP), the MMG faculty participate in the interdisciplinary doctoral program in Cellular, Molecular, and Biomedical Sciences.

DEGREES

Microbiology and Molecular Genetics AMP

Microbiology and Molecular Genetics M.S.

FACULTY

Bruce, Emily; Assistant Professor, Department of Microbiology and Molecular Genetics; PHD, Cambridge University

Celli, Jean; Professor, Department of Microbiology and Molecular Genetics; PHD, Université Pierre & Marie Curie

Chatterjee, Nimrat; Assistant Professor, Department of Microbiology and Molecular Genetics; PHD, Baylor College of Medicine

Diehl, Sean; Associate Professor, Department of Microbiology and Molecular Genetics; PHD, University of Vermont

Doublié, Sylvie; Professor, Department of Microbiology and Molecular Genetics; PHD, University of North Carolina Chapel Hill

Dragon, Julie; Associate Professor, Microbiology and Molecular Genetics; PHD, University of Vermont

Kirkpatrick, Beth Diane; Professor, Department of Microbiology and Molecular Genetics; MD, Albany Medical College

Knodler, Leigh; Associate Professor, Department of Microbiology and Molecular Genetics; PHD, University of New South Wales

Martorelli Di Genova, Bruno; Assistant Professor, Department of Microbiology and Molecular Genetics; PHD, Federal University of Sao Paulo

Thali, Markus Josef; Professor, Department of Microbiology and Molecular Genetics; PHD, University of Zurich

Ward, Gary E.; Professor, Department of Microbiology and Molecular Genetics; PHD, University of California San Diego

Wargo, Matthew; Associate Professor, Department of Microbiology and Molecular Genetics; PHD, Dartmouth College

Courses

MMG 5990. Special Topics. 1-18 Credits.
Supervised investigations in microbiology or molecular genetics. Prerequisite: Instructor permission. Credit as arranged.

MMG 6200. Cellular Microbiology. 4 Credits.
Utilizes primary literature to explore the cellular and molecular basis of microbial pathogenesis caused by viruses, pathogenic bacteria and protozoan parasites.

MMG 6391. Master’s Thesis Research. 1-18 Credits.
Research for the Master’s Thesis.

MMG 6890. Graduate Teaching Practicum. 3 Credits.
Required practicum for all Microbiology and Molecular Genetics Master’s Students. Students will be exposed to and mentored in the fundamentals of undergraduate teaching and learning in the laboratory setting.

MMG 6990. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

MMG 6991. Internship. 1-18 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

MMG 6995. Graduate Independent Research. 1-18 Credits.
Graduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

MMG 7491. Doctoral Dissertation Research. 1-18 Credits.
Research for the Doctoral Dissertation.

MMG 7990. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

MMG 7991. Internship. 1-18 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

MMG 7995. Graduate Independent Research. 1-18 Credits.
Graduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.