

AMP in MMG Course Requirements 2019-2020

A **minimum of 30 credits** are required for completion of the Accelerated Master's Degree in Microbiology & Molecular Genetics. Students must also meet the Graduate College requirements for the Master's Degree including maintaining a minimum GPA of 3.0.

Courses should be selected from the following lists.

Students must complete the following courses:

<u>BIOC 301*</u>	General Biochemistry (Every Fall)	3
<u>BIOC 302*</u>	General Biochemistry (Every Spring)	3
<u>MMG 310</u>	Current Topics in MMG	2
<u>MMG 232</u>	Methods in Bioinformatics (Every Spring)	3
<u>MMG 393</u>	Graduate Teaching Practicum	3
	Approved Graduate Ethics Course	1

*Successful completion of BIOC 205/BIOC 206 can substitute for the BIOC 301/BIOC 302 requirement for previous UVM students only. However, these will NOT count towards the 30 graduate credit requirement for the degree.

Students must complete at least one upper level course in Molecular Genetics from the following selection of courses:

MMG 201	Molecular Cloning Laboratory (every fall)	4
MMG 211	Prokaryotic Genetics (every fall)	3
MMG 233	Genetics & Genomics (every fall)	3
MMG 312	Eukaryotic Molecular Genetics (spring semester, even years)	3

Students must complete at least one upper level course in Microbiology from the following selection of courses:

MMG 220	Environmental Microbiology (spring semester, even years)	3
MMG 222	Clinical Microbiology (every spring)	4
MMG 225	Eukaryotic Virology (fall semester, even years)	3
MMG 320	Cellular Microbiology (spring semester, odd years)	4

Remaining credits in the degree program should be selected from lists above or the following approved list of courses. Special topics or other graduate courses maybe acceptable by prior approval from the Student's Studies Committee.

CLBI 301	Cell Biology (every spring)	3
MMG 223/MLRS 242	Immunobiology (every spring)	3
MMG 352	Protein:Nucleic Acid Interactions (spring semester, even years)	3

At least six and up to nine (12 for those who completed BIOC 205/BIOC 206 in place of BIOC 301/BIOC 302) credits of Master's Thesis Research (MMG 391) are required. In addition, a written thesis and defense of this thesis must occur according to the guidelines laid out by the Graduate College.