

Please read the requirements below that you must follow to graduate. If you have questions about admission, course planning, or registration contact your academic advisor at mcsadvising@ifas.ufl.edu.

Graduation Requirements

- Students must take at least three credits in the final fall/spring (two credits in summer) semester to graduate.
- Thirty credits are required to complete the degree (37 credits required in introductory online MS track).
- Only courses completed with a grade of C or higher can be counted towards the degree.
- Students must maintain both a 3.0 overall GPA and 3.0 major GPA to graduate.
 - A lower GPA will result in academic probation and possible dismissal from the program
- Fifteen credits must be completed in major courses with a MCB, PCB, or BSC prefix.
- Satisfactorily complete MCB 6900 Final Assessment - Literature Review in the last semester of coursework to fulfill the final exam requirement:
<http://microbiologyonline.ifas.ufl.edu/student-resources/graduation-info/>

Required courses

- Students are required to complete at least **ONE** of the following:
 - Note – GMS 6121 and MCB 5205 can both be taken and one can count as an elective

Course #	Course Title	Credits	Fall	Spring	Summer
MCB 5205	Microbiology of Human Pathogens (Pre-Req: microbiology course)	3	✓	✓	
GMS 6121	Infectious Disease (Pre-Req: biochemistry course)	3	✓	✓	Sum C**

- Students are required to complete at least **ONE** of the following:
 - Note – GMS 7133 and MCB 5505 can both be taken and one can count as an elective

Course #	Course Title	Credits	Fall	Spring	Summer
MCB 5505	Virology (Pre-Req: microbiology course)	3	✓	✓	Sum C**
GMS 7133	Advanced Molecular Virology (Pre-Req: passing grade in GMS6121)	2	✓	✓	Sum C**

- Students are required to complete at least **ONE** of the following:
 - Note - taking up to 2 additional journal courses can count as electives (maximum 3 credits total)

Course #	Course Title	Credits	Fall	Spring	Summer
MCB 7922	Journal Colloquy – (topic announced each semester) (Pre-Req: none)	1	✓	✓	Sum C**
GMS 7192	Journal Colloquy – Infectious Disease (Pre-Req: none)	1	✓	✓	Sum C**
GMS 7192	Journal Colloquy – Bacteriology (Pre-Req: none)	1	✓	✓	Sum C**
GMS 7192	Journal Colloquy – COVID-19 (Pre-Req: none)	1	✓	✓	Sum C**

- Students are required to complete **ALL THREE** of the courses listed below

Course #	Course Title	Credits	Fall	Spring	Summer
BSC 6459	Fundamentals in Bioinformatics (Pre-Req: molecular biology or biochemistry course)	3	✓		
BCH 5413	Mammalian Molecular Biology and Genetics (Pre-Req: molecular biology or biochemistry course)	3	✓	✓	Sum C**
MCB 6900	Final Assessment - Literature Review (must be taken in final semester)	1	✓	✓	Sum C**

Elective Courses

- Remaining credits must come from elective courses (required and elective credits must total 30 to be eligible to graduate)
 - Note – module courses are offered during shortened periods throughout the semester

Course #	Course Title	Credits	Fall	Spring	Summer
MCB 6796	Microbiological Data Analysis (Pre-Req: microbiology course)	3	✓		
BSC 6895C	AI in Agriculture and Life Sciences (Pre-Req: microbiology course)	3	✓		
MCB 6407	Prokaryotic Cell (Pre-Req: courses in microbiology and biochemistry)	3	✓		
MCB 6937	Synthetic Biology (Pre-Req: microbiology course)	3	✓		
MCB 6656	Environmental Microbiology (Pre-Req: microbiology course)	3	✓		
MCB 6937	Fundamentals in Molecular Genetics (Recommended for those with limited molecular biology background)	3	✓		
MCB 6417	Microbial Metabolism and Energetics (module) (Pre-Req: biochemistry course)	1	✓		
MCB 6095	Microbiology Careers (Pre-Req: none)	1	✓	✓	Sum B***
MCB 6096	Innovation Project Management (Pre-Req: none)	1	✓	✓	Sum B***
GMS 6108^	Bacterial Physiology, Antibiotics and Genetics (Pre-Req: grade of B+ in GMS6121)	3	✓	✓	Sum C**
GMS 6109^	Advanced Bacteriology (Pre-Req: passing grade in GMS6121)	2	✓	✓	Sum C**
GMS 6132	Introductory Gene and Immunotherapy (Pre-Req: passing grade in GMS6121)	2	✓	✓	Sum C**
MCB 5270	Antimicrobial Resistance (Pre-Req: microbiology course)	3	✓	✓	
MCB 6937	Regulatory Aspects of Microbiome Research (Pre-Req: MCB6424 or MCB4422)	1	✓		Sum C**
MCB 6937	Advanced Molecular Genetics (Pre-Req: molecular genetics course)	3		✓	
MCB 5252	Microbiology, Immunology & Basis for Immuno-Therapeutics (Recommended for those with limited microbiology and immunology background)	4		✓	Sum A*
MCB 6772	Advanced Topics in Cell Biology (module) (Pre-Req: microbiology course)	1		✓	
MCB 6355	Microbial/Host Defense (module) (Pre-Req: immunology course)	1		✓	
MCB 6318	Comparative Microbial Genomics (module) (Pre-Req: grade of A- in BSC6459)	2		✓	
PCB 6667	Human Genomics (Pre-Req: microbiology course)	3		✓	
MCB 6326	Computational Genomics and Epigenomics (Pre-Req: microbiology course)	3		✓	
PCB 5235	Immunology (Pre-Req: microbiology course)	3		✓	
MCB 5705	Astrobiology (Pre-Req: microbiology course)	3		✓	
MCB 6424	Probiotics (Pre-Req: microbiology course)	3		✓	
MCB 6670C	The Microbiome (Pre-Req: microbiology course)	3		✓	Sum C**
MCB 6937	Python Programming (Pre-Req: microbiology course)	3		✓	
MCB 6458	Post Translational Modifications in Microbiology (Pre-Req: microbiology course)	2			Sum C**
MCB 6151	Prokaryotic Diversity (Pre-Req: microbiology course)	3			Sum C**
MCB 6937	Microbial Multicellularity (Pre-Req: passing grade in MCB5205)	2			Sum C**

Introductory Course Track

- These two courses are required in addition to the standard 30 credits for students who are lacking a foundation in microbiology and/or biochemistry. It will be noted in your admission email if you are required to take either of these courses.

Course #	Course Title	Credits	Fall	Spring	Summer
MCB 6937	Biology of Microorganisms	3	✓	✓	Sum A*
BCH 5404	Fundamentals of Biochemistry and Molecular Biology	4	✓	✓	Sum C**

* Sum A refers to the first six-week summer session, mid-May through late June

** Sum C refers to the 12-week summer session, mid-May through early August

***Sum B refers to the second six-week summer session, early July through early August

^ Students may not take both GMS6108 and GMS6109; students may take either GMS6108 or GMS6109