UF UNIVERSITY of FLORIDA

**College of Agricultural and Life Sciences**
Department of Microbiology and Cell Science

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Please read all the requirements below that you must follow in order to graduate. If you have questions about course content or course order, contact your academic advisor, Jonathan Orsini, at jorsini@ufl.edu. If you have questions about registration, admission, or anything else, contact dess@ahc.ufl.edu.

## Required courses

- 17-18 credits of required courses must be completed before you can graduate.

| Course # | Course Title | Credits | Fall | Spring | Summer |
|---|---|---|---|---|---|
| MCB 6940 | Career Seminar | 1 | x | x | Sum A |
| BSC 6459 | Fundamentals in Bioinformatics | 3 | x | | |
| BCH 5413 | Eukaryotic Molecular Biology and Genetics | 3 | x | x | Sum C |
| MCB 5252 | Microbiology, Immunology & Basis for Immuno-therapeutics | 4 | | x | Sum A |

- **Students are required to complete at least <u>one</u> of the following:**
  - Note – GMS 6121 or 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 | 3 | x | | |
| **-OR-** | | | | | |
| GMS 6121 | Infectious Disease | 3 | x | x | Sum C |

- **Students are required to complete at least <u>one</u> 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 | 3 | | x | |
| **-OR-** | | | | | |
| GMS 7133 | Advanced Molecular Virology (GMS 6121 pre-req) | 2 | | x | |

- **Students are required to complete at least <u>one</u> of the following:**
  - Note that taking additional journal courses can count as electives

| Course # | Course Title | Credits | Fall | Spring | Summer |
|---|---|---|---|---|---|
| MCB 7922 | Journal Colloquy – Innate Immune System | 1 | x | x | |
| **-OR-** | | | | | |
| GMS 7192 | Journal Colloquy – Infectious Disease (take with GMS 6121) | 1 | x | x | Sum C |
| GMS 7192 | Journal Colloquy – Bacteriology (take with GMS 6108) | 1 | x | x | Sum C |

## Introductory Course Track

- These 2 courses for 7 credits are required in addition to the standard 30 credits for students in the Introductory Online MS track only. Students with prior experience in Microbiology and Biochemistry do not need to take these courses. Both courses are available as electives, if desired (*requires department permission to register).*

| | | | | | |
|---|---|---|---|---|---|
| MCB 6937 | Biology of Microorganisms | 3 | x | x | Sum A |
| GMS 5905 | Fundamentals in Biochemistry | 4 | x | x | Sum C |

## Elective Courses

- Students must complete 12-13 elective credits in order to graduate (depending on required course choices)
- Note that journal courses can count as electives as well

| Course # | Course Title | Credits | Fall | Spring | Summer |
|---|---|---|---|---|---|
| MCB 6937 | Advanced Bacterial Genetics | 3 | x | | |
| MCB 6937 | Microbial Applications of Synthetic Biology | 3 | x | | |
| MCB 6937 | Bacterial Physiology | 3 | x | | |
| MCB 6781 | Archaea and Biotechnology | 3 | x | | |
| MCB 6937 | Human Genomics | 3 | x | | |
| GMS 6108 | Advanced Bacteriology (GMS 6121 or MCB 5205 pre-req) | 3 | x | x | Sum C |
| MCB 6937 | Molecular Genetics | 3 | | x | Sum C |
| PCB 5235 | Immunology | 3 | | x | |
| GMS 6132 | Introductory Gene and Immunotherapy | 2 | | x | |
| MCB 6937 | Probiotics | 3 | | x | |
| MCB 6670c | The Microbiome | 3 | | x | |
| MCB 6937 | Post Translational Modifications in Microbiology | 2 | | | Sum C |
| MCB 6151 | Prokaryotic Diversity | 3 | | | Sum C |
| MCB 6937 | Molecular Bioinformatics in UNIX | 3 | | | Sum C |
| MCB 6937 | Antimicrobial Resistance (New Spring 2019) | 3 | x | x | Sum C |
| MCB 6772 | Advanced Topics in Cell Biology | 1 | | x | |
| MCB 6355 | Microbial/Host Defense | 1 | | x | |
| MCB 6457 | Metabolic Regulation (synchronous live web broadcast) | 1 | | x | |
| MCB 6417 | Microbial Metabolism and Energetics | 1 | x | | |
| MCB 6317 | Molecular Biology of Gene Expression | 1 | x | | |
| MCB 6318 | Comparative Microbial Genomics Pre-Req: BSC 6459 | 2 | | x | |
| MCB 6xxx | Environmetnal Microbiology (coming soon, semester tbd) | 3 | TBD | TBD | TBD |

## Graduation

- Students must take at least 3 credits in the final fall/spring (2 in summer) semester to graduate.
- 30 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.
- You must maintain both a 3.0 overall GPA and 3.0 major GPA in order to graduate.
- 15 credits must be completed in major courses with a MCB, PCB, or BSC prefix.
- Satisfactorily complete a comprehensive examination in the last semester of coursework: http://microbiologyonline.ifas.ufl.edu/student-resources/graduation-info/