

Microbiology and Cell Science Online BS Degree Program

Advising Worksheet – Coursework

Required Courses that must be completed as a transient student at a local institution:

- Organic Chemistry 1 & 2 w/lab (CHM 2210, CHM 2211 and CHM 2211L). Note that CHM 2211L at UF is 2 credits, while other institutions will require two 1 credit labs (2210L and 2211L).
 - Note – Course numbers and credits will differ between institutions

Core Requirements (available online at UF)

- Physics 1 & 2 w/lab (PHY 2053/2053L & PHY 2054/2054L or PHY 2048/2048L & PHY 2049/2049L)
 - Students are permitted to complete Physics at a local college, in person, as a transient student. This is recommended for students interested in attending professional schools (medicine, veterinary medicine, dentistry, etc.)
- BCH 4024 Biochemistry
- MCB 3023 Principles of Microbiology
- MCB 3015c Online Lab Skills Boot Camp (online)
- MCB 4934 Microbiology Lab Boot Camp (in person accelerated immersion lab, 5 days long)
- MCB 4034L Advanced Microbiology Lab (in person accelerated immersion lab, 5 days long)
- MCB 4203 Bacterial/Viral Pathogens or PCB 4233 Immunology (Path/Immunology Req.)
 - Students must take MCB 4203 Bacterial/Viral Pathogens or PCB 4233 Immunology as a core course. If they take both, one will count as a core course and the other will roll over into the 9-credit department elective requirement.
- MCB 4304 Genetics of Microorganisms or PCB 4522 Molecular Genetics (Genetics Req.)
 - Students can only take one of these courses.
- BSC 2891 Python Programming for Biologists, STA 2023 Introduction to Statistics, or MCB 4320c The Microbiome (Quantitative Requirement)

Department Elective Requirements

A total of 9 credits of approved department electives are required. The current list of online department electives includes:

- BSC 2891 Python Programming for Biologists (Spring)
- MCB 4203 Pathogens (Fall) or PCB 4233 Immunology (Spring)
- MCB 4403 Prokaryotic Cell Structure and Function (Fall)
- PCB 3134 Eukaryotic Cell Structure and Function (Fall, Spring)
- MCB 4320c The Microbiome (Spring)
- ZOO 4232 Human Parasitology (Fall)
- MCB 3703 Astrobiology (Spring)
- MCB 4503 General Virology (Spring)
- MCB 4782 Archaea and Biotechnology (Fall)
- MCB 4934 Microbial Diversity (Sum A)
- MCB 4934 Microbial Applications of Synthetic Biology (Fall)
- MCB 4934 Human Genomics (Fall)
- MCB 4934 Probiotics (Spring)
- MCB 4934 Vaccines and Immunizations (Spring)
- MCB 4934 Molecular Bioinformatics in UNIX (summer c)
- MCB 4934 Microbial Diversity (summer c)

A full list of Microbiology and Cell Science courses can be found here:

<http://microcell.ufl.edu/programs/ugcoursedescriptions/>

Required Lab Information:

- MCB 3015c Online Lab Skills Boot Camp (online)
- MCB 4934 Microbiology Lab Boot Camp (in person accelerated immersion lab, 5 days long)
 - May 5 – May 9, 2018 (2019 dates TBD)
 - Students have the option to take this course as a transient student at a local institution –
DEPARTMENT APPROVAL IS REQUIRED
- MCB 4034L Advanced Microbiology Lab (in person accelerated immersion lab, 5 days long)
 - May 11 – May 15, 2018 (2019 dates TBD)
 - Student may waive this requirement by conducting at least 48 hours of pre-approved research at a local institution
 - Research must be approved with a signed research contract
 - Students must complete an Advanced Lab Waiver form once research is completed to determine if MCB 4034L can be waived (no guarantee)
 - Student would register for MCB 4911/4915 – 1 credit = 48 contact hours
 - Contact jorsini@ufl.edu for more information)

College Requirements: (0-9 UF credits Required)

SPC 2608 Intro to Speech Communication (fall, spr, sum) – (3 credits)

- Or equivalent at a local institution*

ENC 2210 Technical Writing (fall, spr, sum)(Flex course) – (3 credits)

- Or equivalent at a local institution*

AEB 2014 Economic Issues, Food, and You – (3 credits)

- Or equivalent at a local institution*
- ECO 2013 Macroeconomics or ECO 2023 Microeconomics both work well

*Note - These courses can be taken at local institutions as a transient student – Requires Approval IN ADVANCE

General Electives (18 UF credits)*

- Students must complete at least 18 credits of 3000/4000 at UF in order to graduate. These courses can come from any department at UF, including additional microbiology coursework.
 - A full list of courses can be found here: <https://one.ufl.edu/soc/>
 - Effective Fall 2017, students can search for electives by selecting “UF Online Program” in the required program search field
 - 2000 level courses can be accepted for general elective credit on a case-by-case basis.

Additional Requirements:

Post-Bacc students must complete at least 30 UF credits to graduate

Transfer students must complete at least 50 UF credits to graduate

Fall 20_____	Spring 20_____	Summer 20_____
Fall 20_____	Spring 20_____	Summer 20_____
Fall 20_____	Spring 20_____	Summer 20_____
Fall 20_____	Spring 20_____	Summer 20_____