Bachelor of Science in Molecular Microbiology

Catalog Year 2022-2023

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- UCF General Education Program
- □ 120 Total Credit Hours
- □ 42 Upper-Level Credit Hours

*Refer to your degree audit to ensure all University requirements are Satisfied

II. **Pending Requirements**

To transition out of "Pending" status, students must earn a "C" or better in these courses or their equivalents, unless otherwise stated:

□ BSC 2010C Biology I 4 hrs □ CHM 2045C Chemistry Fundamentals I* 4 hrs

*Prerequisites: Passing Score on Chemistry Placement Exam or CHM 1025

□ CHM 2046 Chemistry Fundamentals II □ CHM 2210 Organic Chemistry I 3 hrs ■ MCB 3020C General Microbiology ("B" or better) 5 hrs

III. **Major Requirements**

☐ Students must maintain a 3.0 UCF GPA to graduate with this degree.

A. Core Curriculum

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BSC 2011C	Biology II	4 hrs
PCB 4280	Molecular Immunology	3 hrs
PCB 3233L	Immunology Lab	1 hr
BSC 3403C	Quantitative Biological Methods	4 hrs
PCB 3522	Molecular Biology I	3 hrs
PCB 4524	Molecular Biology II	3 hrs
MCB 4404	Bacterial Genetics and Physiology	3 hrs
MCB 4414	Physiology and Biochemistry of Microbes	3 hrs

Chemistry

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	CHM 2046L	Chemistry Fundamentals Lab	1 hr
	CHM 2211	Organic Chemistry II	3 hrs
	CHM 2211L	Organic Laboratory Techniques I	2 hrs
	BCH 4053 -OR -BCH 4024	Biochemistry I <u>or</u> Medical Biochemistry	3 hrs/4 hrs

Math

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*Prerequisites: MAT 1033C, MAC 1105C, MAC 1114C, MAC 1140C

□ STA 2023 Statistical Methods I 3 hrs

Physics

Select One Sequence:

PHY 2053C (or PHY 2053+2053L)	College Physics I	4 hrs
PHY 2054C (or PHY 2054+2054L)	College Physics II	4 hrs
-OR-		
PHY 2048C (or PHY 2048+2048L)	General Physics Using Calculus I	4 hrs
PHY 2049C (or PHY 2049+2049L)	General Physics Using Calculus II	4 hrs

B. Restricted Electives

Must take at least 3 restricted elective courses (at least 1 must have a lab component and only 1 can be chosen from the full list of Biomedical Sciences Restricted Electives).

- □ BOT 4434C General Mycology □ MCB 4276 Epidem of Infectious Diseases □ MCB 3202 Principles of Infectious Disease □ MCB 4503 Virology □ MCB 3203+L Pathogenic Microbiology + Lab □ MCB 4603 Environmental Microbiology □ MCB 4201 Microbial Stress Response □ MCB 4721C Methods in Biotechnology □ MCB 4204 Cell Micro: Host-Path Interactions □ PCB 4028 Molecular and Cellular Pharmacology □ MCB 4207 Infectious Processes □ PCB 4284 Immunobiology □ PCB 4284 Immunobiology

Note: Participating in AIM, GEAR, HIM (with approval), PILOT, or PURE will substitute for one lab restricted elective.