I. University Requirements

- 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: Appropriate Chemistry Placement Exam score or CHM 1025 & MAC 1105
- CHM 2046 Chemistry Fundamentals II 3 hrs
- 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 Science GPA to graduate with this degree.

A. Core Curriculum

Life Sciences

- 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

- 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 or Medical Biochemistry 3 hrs/4 hrs

Math

- MAC 2311C Calculus with Analytic Geometry I* 4 hrs
  *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
- 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 3202 Principles of Infectious Disease
- MCB 3203+L Pathogenic Microbiology + Lab
- MCB 4201 Microbial Stress Response
- MCB 4204 Cell Micro: Host-Path Interactions
- MCB 4207 Infectious Processes

- MCB 4276 Epidem. of Infectious Diseases
- MCB 4503 Virology
- MCB 4603 Environmental Microbiology
- MCB 4721C Methods in Biotechnology
- PCB 4028 Molecular and Cellular Pharmacology
- PCB 4284 Immunobiology

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

Updated May 2024