Bachelor of Science in Biomedical Sciences
Neuroscience Track
Catalog Year 2023-2024

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:
❑ 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 3 hrs
❑ CHM 2210 Organic Chemistry I 3 hrs

III. Major Requirements
❑ Students must maintain a 3.0 Science GPA to graduate with this degree.

A. Core Curriculum

Life Sciences
❑ BSC 2011C Molecular Genetics 4 hrs
❑ PCB 4280 Molecular Immunology 3 hrs
❑ PCB 3233L Immunology Lab 1 hr
❑ MCB 3020C General Microbiology 5 hrs
❑ BSC 3403C Quantitative Biological Methods 4 hrs
❑ PCB 3522 Molecular Biology I 3 hrs
❑ PCB 4524 Molecular Biology II 3 hrs
❑ MCB 4224 Molecular Biology of Diseases 3 hrs
❑ PCB 4843 Cellular and Molecular Neuroscience 3 hrs
❑ ZOO 3744 Neurobiology 3 hrs
❑ ZOO 4743C Clinical Neuroanatomy and Neuroscience 4 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
-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 2 must have a lab component and only 1 can be chosen from the full list of Biomedical Sciences restricted electives).
❑ PCB 3703C Human Physiology
❑ PCB 4028 Molecular and Cell Pharmacology
❑ PCB 4135 Applied Molecular Cell Biology
❑ PCB 4174 Foundation Bio-Imaging Science
❑ PCB 4234 Cancer Biology
❑ PCB 4284 Immunobiology
❑ PCB 4832 Cell and Molec Basis of Brain Func
❑ ZOO 4742 Advanced Neurobiology
❑ ZOO 4747C Clinical Neuroscience

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