UCF | College of Medicine

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	Biology II	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.