



**Bachelor of Science in Biomedical Sciences**

**Neuroscience Track**

Catalog Year 2020-2021

**I. University Requirements**

- UCF General Education Program
- 120 Total Credit Hours
- 48 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:

- |  |                           |       |
|--|---------------------------|-------|
| <input type="checkbox"/> BSC 2010C   | Biology I                 | 4 hrs |
| <input type="checkbox"/> CHM 2045C   | Chemistry Fundamentals I* | 4 hrs |
| <b>*Prerequisites: Passing Score on Chemistry Placement Exam or CHM 1025</b> |                           |       |
| <input type="checkbox"/> CHM 2046  | Chemistry Fundamentals II | 3 hrs |
| <input type="checkbox"/> CHM 2210  | Organic Chemistry I       | 3 hrs |

**III. Major Requirements**

- Students must maintain a 3.2 Science GPA to graduate with this degree.

**A. Core Curriculum**

**Life Sciences**

- |   |   |       |
|---|---|-------|
| <input type="checkbox"/> BSC 2011C              | Biology II                                | 4 hrs |
| <input type="checkbox"/> PCB 3233 -OR- PCB 4280 | Immunology <u>or</u> Molecular Immunology | 3 hrs |
| <input type="checkbox"/> PCB 3233L              | Immunology Lab                            | 1 hr  |
| <input type="checkbox"/> MCB 3020C              | General Microbiology                      | 5 hrs |
| <input type="checkbox"/> BSC 3403C              | Quantitative Biological Methods           | 4 hrs |
| <input type="checkbox"/> PCB 3522               | Molecular Biology I                       | 3 hrs |
| <input type="checkbox"/> PCB 4524               | Molecular Biology II                      | 3 hrs |
| <input type="checkbox"/> MCB 4224               | Molecular Biology of Diseases             | 3 hrs |
| <input type="checkbox"/> PCB 4843               | Cellular and Molecular Neuroscience       | 3 hrs |
| <input type="checkbox"/> ZOO 3744               | Neurobiology                              | 3 hrs |
| <input type="checkbox"/> ZOO 4743C              | Clinical Neuroanatomy and Neuroscience    | 4 hrs |

**Chemistry**

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

**Math**

- |   |                                    |       |
|---|------------------------------------|-------|
| <input type="checkbox"/> MAC 2311C                                | Calculus with Analytic Geometry I* | 4 hrs |
| <b>*Prerequisites: MAT 1033C, MAC 1105C, MAC 1114C, MAC 1140C</b> |                                    |       |
| <input type="checkbox"/> STA 2023                                 | Statistical Methods I              | 3 hrs |

**Physics**

**Select One Sequence:**

- |  |                                   |       |
|--|-----------------------------------|-------|
| <input type="checkbox"/> PHY 2053C ( <u>or</u> PHY 2053+2053L) | College Physics I                 | 4 hrs |
| <input type="checkbox"/> PHY 2054C ( <u>or</u> PHY 2054+2054L) | College Physics II                | 4 hrs |
| <b>-OR-</b>  |                                   |       |
| <input type="checkbox"/> PHY 2048C ( <u>or</u> PHY 2048+2048L) | General Physics Using Calculus I  | 4 hrs |
| <input type="checkbox"/> PHY 2049C ( <u>or</u> 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).

- |   |  |
|---|--|
| <input type="checkbox"/> PCB 3703C Human Physiology               | <input type="checkbox"/> PCB 4284 Immunobiology                      |
| <input type="checkbox"/> PCB 4028 Molecular and Cell Pharmacology | <input type="checkbox"/> PCB 4832 Cell and Molec Basis of Brain Func |
| <input type="checkbox"/> PCB 4135 Applied Molecular Cell Biology  | <input type="checkbox"/> ZOO 4742 Advanced Neurobiology              |
| <input type="checkbox"/> PCB 4174 Foundation Bio-Imaging Science  | <input type="checkbox"/> ZOO 4747C Clinical Neuroscience             |
| <input type="checkbox"/> PCB 4234 Cancer Biology                  |  |

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