



UCF

# College of Medicine

## Bachelor of Science in Biomedical Sciences

### Neuroscience Track

Catalog Year 2021-2022

#### 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:

- |                                    |  |       |
|------------------------------------|--|-------|
| <input type="checkbox"/> BSC 2010C | Biology I  | 4 hrs |
| <input type="checkbox"/> CHM 2045C | Chemistry Fundamentals I*  | 4 hrs |
|                                    | <i>*Prerequisites: Passing Score on Chemistry Placement Exam or CHM 1025</i> |       |
| <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 4280  | 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 |
|                                    | <i>*Prerequisites: MAT 1033C, MAC 1105C, MAC 1114C, MAC 1140C</i> |       |
| <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.**