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. Major Requirements

A. Core Curriculum

Life Sciences
- BSC 2010C    Biology I        4 hrs
- PCB 3233 -OR- PCB 4280 Immunology or 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

Chemistry
- 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 2046L   Chemistry Fundamentals Lab 1 hr
- CHM 2210    Organic Chemistry I 3 hrs
- 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 5 restricted elective courses (2 with labs) and no more than 2 courses can be MLS courses or outside of the College of Medicine. Choose from the list on the back of this form.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Restricted Elective #1</td>
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<td>Restricted Elective #2</td>
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<td>Restricted Elective #3</td>
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<td>Restricted Elective #4 (with lab)</td>
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<tr>
<td>Restricted Elective #5 (with lab)</td>
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Note: Participating in AIM, GEAR, HIM (with approval), PILOT, or PURE will substitute for one lab restricted elective.
Biomedical Sciences Restricted Electives

*B = recommended for pre-professional students
^ = outside of the College of Medicine

BCH 4054 Biochemistry II
BOT 4850 Medicinal Botany
BSC 3424 Nanobiotechnology
BSC 4434 Biomed Informatics: Sequence Analysis
BSC 4439 Biomed Informatics: Structure Analysis
MCB 3202 Principles of Infectious Disease
MCB 3903 Explorations in Biomed Sci Research
MCB 3933 Biomedical Sciences Careers
MCB 4201 Microbial Stress Response
MCB 4204 Cell Micro: Host-Pathogen Interactions
MCB 4207 Infectious Processes
MCB 4224 Molecular Biology of Diseases
MCB 4276 Epidemiology of Infectious Diseases
MCB 4312 Molecular Biotechnology
MCB 4404 Bacterial Genetics and Physiology
MCB 4414 Microbial Metabolism
MCB 4503 Virology
MCB 4603 Environmental Microbiology
MLS 3305 Hematology
MLS 4334 Hemostasis
MLS 4505 Immunodiagnostics
MLS 4625 Advanced Clinical Chemistry I

MLS 4630 Advanced Clinical Chemistry II
PCB 4028 Molecular and Cellular Pharmacology
PCB 4135 Applied Molecular Cell Biology
PCB 4174 Foundation of Bio-Imaging Science
PCB 4234 Cancer Biology
PCB 4264 Stem Cell Biology
PCB 4284 Immunobiology
PCB 4402 Disease Ecology & Ecoimmunology
PCB 4514 Genetics II
PCB 4521 Tissue Engineering
PCB 4663 Human Genetics
PCB 4723 Animal Physiology
PCB 4805 Endocrinology
PCB 4808 Physiology of Reproduction
PCB 4813 Molecular Aspects of Obesity
PCB 4832 Cell and Molec Basis of Brain Functions
PCB 4833 Advanced Human Physiology
PCB 4843 Cellular and Molecular Neuroscience
ZOO 3744 Neurobiology
ZOO 4513 Animal Behavior
ZOO 4605 Human Clinical Embryology
ZOO 4742 Advanced Neurobiology

Electives with Labs

BCH 4103L Biochemical Methods
BOT 4434C General Mycology
MCB 3203/L Pathogenic Microbiology + Lab
MCB 4114C Determinative & Systemic Microbiology
MCB 4721C Methods in Biotechnology
PCB 3063/L Genetics** + Lab
PCB 3703C Human Physiology
PCB 4529C Experimental Molecular Cell Biology
PCB 4683/L Evolutionary Biology + Lab

PCB 4708L Lab Virtual Simulations in Physiology
ZOO 3713C Comparative Vertebrate Anat**^ (pre-vet)
ZOO 3733C Human Anatomy
ZOO 3755C Introductory Histology
ZOO 4603C Embryology/Development**^ 
ZOO 4701 Dissection Techniques
ZOO 4743C Clinical Neuroanatomy & Neuroscience
ZOO 4747C Clinical Neuroscience
ZOO 4753C Vertebrate Histology