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:

- BSC 2010C    Biology I       4 hrs
- CHM 2045C   Chemistry Fundamentals * 4 hrs
- CHM 2046    Chemistry Fundamentals II 3 hrs
- CHM 2210    Organic Chemistry I 3 hrs

*Prerequisites: Passing Score on Chemistry Placement Exam or CHM 1025

III. Major Requirements

A. Core Curriculum

Life Sciences

- BSC 2011C   Biology II      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
- PCB 3522    Molecular Biology I 3 hrs
- PCB 4524    Molecular Biology II 3 hrs
- MCB 4720    Industrial Perspectives Seminar 3 hrs
- MCB 4312    Molecular Biotechnology 3 hrs
- BSC 3403C -OR- MCB 4721C Quant Biological Methods or Methods in Biotechnology 4 hrs
- PCB 4135 -OR- PCB 4529C Applied Mol. Cell Biology or Experimental Mol. Cell Biology 3 hrs/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

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 participate in at least 3 credit hours of research (ex. MCB 4912, MCB 4941).
  - Note: Participating in AIM, GEAR, HIM (with approval), PILOT, or PURE will count for research credit.
- Must take 1 restricted elective course from the list below.

  BCH 4054  Biochemistry II
  BHC 4103L Biochemical Methods
  BSC 3424 Nanobiotechnology
  BSC 4434 Sequence Analysis
  BSC 4439 Structure Analysis
  CHM 3120/L Analytical Chemistry/Lab
  CHM 3410 Physical Chemistry I
  MCB 3202 Infectious Disease
  MCB 3203/L Pathogenic Micro/Lab
  MCB 4201 Microbial Stress Response
  MCB 4204 Cell Micro: Host-Pathogen
  MCB 4207 Infectious Processes
  MCB 4224 Molec Biology of Diseases
  MCB 4404 Bacterial Genetics
  MCB 4414 Microbial Metabolism
  MCB 4503 Virology
  MCB 4603 Environmental Microbiology
  PCB 3063 Genetics
  PCB 3703C Human Physiology
  PCB 4174 Foundation of Bio-Imaging
  PCB 4204 Cell Micro: Host-Pathogen
  PCB 4234 Cancer Biology
  PCB 4264 Stem Cell Biology
  PCB 4284 Immunobiology
  PCB 4521 Tissue Engineering
  PCB 4663 Human Genetics
  PCB 4805 Endocrinology
  PCB 4813 Molec Aspects of Obesity
  PCB 4832 Brain Functions
  PCB 4833 Advanced Human Physiology
  PCB 4843 Cell and Molec Neuroscience