

Minor in Biomedical Sciences

Catalog Year 2021-2022

- 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. Required Courses

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
□ MCB 3020C	General Microbiology	5 hrs
□ PCB 3233L	Immunology Laboratory	1 hrs
□ PCB 3522	Molecular Biology I	3 hrs
□ PCB 4524	Molecular Biology II	3 hrs

Quantitative Biological Methods

III. Complete At Least 1 of the Following

PCB 3233	Immunology	3 hrs
PCB 4280	Molecular Immunology	3 hrs

IV. <u>Restricted Electives</u>

□ BSC 3403C

٦	o transition out of "Pending" s	status, students must earn a "C" or better in the	ese courses or their equivalents:
	BSC 2010C	Biology I	4 hrs
	MCB 3020C	General Microbiology	5 hrs
	PCB 3233L	Immunology Laboratory	1 hrs
	PCB 3522	Molecular Biology I	3 hrs
	PCB 4524	Molecular Biology II	3 hrs

Quantitative Biological Methods

V. <u>Other Requirements</u>

■ BSC 3403C

To transition out of	"Pending" status, students must earn a "C	or better in these courses or their equivalents:
□ BSC 2010C	Bioloav I	4 hrs

□ MCB 3020C General Microbiology 5 hrs

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
BSC 3403C	Quantitative Biological Methods	4 hrs
PCB 3522	Molecular Biology I	3 hrs
PCB 4524	Molecular Biology II	3 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 Lor Medical Biochemistry	3 hrs/4 hrs

<u>Math</u>

MAC 2311C	Calculus with Analytic Geometry I*	4 hrs
	*Prerequisites: MAT 1033C, MAC 1105C, MAC 1114C, MA	AC 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

4 hrs

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

A. 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.

	Course	Credit Hours
Restricted Elective #1		
Restricted Elective #2		
Restricted Elective #3		
Restricted Elective #4 (with lab)		
Restricted Elective #5 (with lab)		

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

Biomedical Sciences Restricted Electives

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

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*A
PCB 4521 Tissue Engineering
PCB 4663 Human Genetics
PCB 4723 Animal Physiology*A(pre-vet)
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*^(pre-vet)
ZOO 4605 Human Clinical Embryology*
ZOO 4742 Advanced Neurobiology*



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*