

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW/CHANGE PROGRAM REQUEST</b> <b>Undergraduate Programs</b>		UUPC Approval <u>4-25-22</u> UFS Approval _____ Banner Posted _____ Catalog _____
	Department <u>N/A</u> College <u>Honors</u>		
<b>Program Name</b> Concentration in Biology	<input type="checkbox"/> New Program <input checked="" type="checkbox"/> Change Program	<b>Effective Date</b> (TERM & YEAR) <p style="text-align: center;">Fall 2022</p>	
<b>Please explain the requested change(s) and offer rationale below or on an attachment</b>  The request is to update the Biology Concentration to reflect the current list of available electives. This update addresses courses recently added to the catalog, those that have been removed, as well as additional corrections.			
<b>Faculty Contact/Email/Phone</b> William O'Brien, wobrien@fau.edu, 6-8033		<b>Consult and list departments that may be affected by the change(s) and attach documentation</b> Wilkes Honors College; Department of Biological Sciences	
<b>Approved by</b> Department Chair <u>William O'Brien</u> <small>Digitally signed by William O'Brien          DN: cn=William O'Brien, o=Florida Atlantic University, ou=Wilkes Honors College, email=wobrien@fau.edu, c=US          Date: 2022.03.21 10:26:14 -0400</small>		<b>Date</b> _____	
College Curriculum Chair <u>Nicholas Baima 4/9/2022</u>		_____	
College Dean <u>Justin Perry</u>		<u>4/10/22</u>	
UUPC Chair <u>Ethlyn Williams</u>		<u>4-25-22</u>	
Undergraduate Studies Dean <u>Dan Meeroff</u>		<u>4-25-22</u>	
UFS President _____		_____	
Provost _____		_____	

Email this form and attachments to [mjenning@fau.edu](mailto:mjenning@fau.edu) one week before the UUPC meeting so that materials may be viewed on the UUPC website prior to the meeting.

---

[Publications Internal \(/honors/undergraduate-research/internal-publications/\)](/honors/undergraduate-research/internal-publications/)

---

[Research Day \(/honors/undergraduate-research/research-symposium/\)](/honors/undergraduate-research/research-symposium/)

---

[Student Awards \(/honors/current-students/student-awards/\)](/honors/current-students/student-awards/)

---

[Study Abroad \(/honors/current-students/study-abroad/\)](/honors/current-students/study-abroad/)

---

[Undergraduate Research \(/honors/undergraduate-research/\)](/honors/undergraduate-research/)

# CONCENTRATION IN BIOLOGY

## Overview and Advisory Board



The biology concentration is designed for those students who wish to go on to graduate school, medical school, or who desire to work for biotech firms, government agencies or environmental organizations. Our interdisciplinary curriculum will benefit students who choose to pursue graduate studies in biology, oceanography or environmental science.

Advisory Board:

Dr. Lucia Carvelli (mailto:lcarvelli@fau.edu?subject=Biology%20concentration)  
 Dr. Andia Chaves Fonnegra (mailto:andiachaves@gmail.com?subject=)  
 Dr. Erik Duboue (mailto:eduboue@fau.edu?subject=Biology%20concentration)  
 Dr. Gregory Macleod (mailto:macleodg@fau.edu?subject=Biology%20concentration)  
 Dr. Tracy Mincer (mailto:tmincer@fau.edu?subject=)  
 Dr. Jon Moore (mailto:jmoore@fau.edu?subject=Biology%20major)  
 Dr. Ericca Stamper (add email)  
 Dr. Catherine Trivigno (add email)  
 Dr. Jim Wetterer (mailto:wetterer@fau.edu?subject=Biology%20major)

Note for Pre-Med students (<http://www.fau.edu/honors/academics/majors/pre-med>) | Suggested courses for Pre-med students (Delete this since we're adding a premed track)

## Electives:

Biology Electives are given below. Other FAU courses may be used only with the prior approval of the Concentration Advisor. Students are reminded that they need 45 upper-level (3000 or 4000-level) credits to graduate.

## Courses

### Concentration in Biology

Course #	Course Name	Credits
BSC 1010, 1010L	Honors Biological Principles with Lab	4
BSC 1011, 1011L	Honors Biodiversity with Lab	4
CHM 2045, 2045L	Honors General Chemistry I with Lab	4
CHM 2046, 2046L	Honors General Chemistry II with Lab	4
MAC 2311	Honors Calculus I with Analytic Geometry	4
STA 2023	Honors Introductory Statistics	3
PHY 2048, 2048L	Honors General Physics I with Lab	5
CHM 2210, 2204L	Honors Organic Chemistry I with Lab	4

Course #	Course Name	Credits
CHM 2211, 2205L	Honors Organic Chemistry II with Lab	4
BCH 3033	Honors Biochemistry	3
PCB 3063	Honors Genetics	4
	Biology Electives	18
IDS 4970	Honors Thesis (two semesters)	6
	Total Credits	67

## Biology Electives

Course #	Course Name	Credits
BSC 4930	Honors Genomes Biology	3
BSC 4930	Honors Environmental Field Ecology with Lab	5
BOT 3223, 3223L Replaces BOT 3501 & L	Vascular Plant Anatomy, with Lab	4
BSC 4905	Honors Directed Independent Study in Biology	1-3
BSC 4402L Delete course	Honors Fluorescence Microscopy Lab	1
BSC 4403L	Honors Biotechnology Lab	2
BSC 4930	Honors Special Topics in Biology	1-3
BSC 4930 Delete course	Honors Endocrinology	3
PCB 4233 Delete word "Honors"	Honors Immunology	3
ZOO 4742	Honors Principles of Human Neuroanatomy	3
BSC 4930 PSB 4243, new number	Honors Science of Addiction	3
BSC 2084, 2084L Delete record	Anatomy and Physiology 1 and Anatomy and Physiology 1 Lab	4
Replace with BSC 2085, 2085L		

Course #		Course Name	Credits	
BSC 4930	Delete record	Honors Molecular Pharmacology	3	
BSC 4930	Delete record	Honors Intro to Structural Molecular Biology	2	
BSC 4930	BSC 3452 new number	Honors Experimental Design and Data Analysis*	3	At bottom of list include: * BSC 3452 is highly recommended for students planning to attend graduate school.
EVR 4420		Honors Marine Conservation	3	
PCB 3703, PCB 3703L		Honors Human Morphology and Function I with Lab	4	
BSC 4930		Honors Biology of Fishes with Lab	4	
PCB 3704, PCB 3704L		Honors Human Morphology and Function II with Lab	4	
BSC 4930		Honors Florida Ecosystems	3	
PCB 4673		Honors Evolution	3	
PCB 3352		Honors Issues in Human Ecology	3	
PCB 4414		Honors Behavioral Ecology	4	
PCB 3351, 3351L	Delete record	Honors Tropical Rainforests with Lab	6	
PCB 3411		Honors Animal Behavior	3	
PCB 4253		Honors Developmental Biology	3	
PCB 4234		Honors Biology of Cancer	3	
PCB 4043		Honors Principles of Ecology	3	
OCB 3012, 3012L		Honors Marine Biology and Oceanography with Lab	4	
ZOO 2303, 2303L		Honors Vertebrate Zoology with Lab	4	
ZOO 4556		Honors Coral Reef Ecology	3	
MCB 3020 (w/3020L)		Honors Microbiology (with Lab)	3 (4)	
PCB 4102		Honors Cell Biology	4	
PCB 4024	Delete record	Honors Molecular Cell Biology	3	
BSC 1933		Honors Freshman Seminar	3	
EVS 4414		Honors Conservation Biology	3	3
BSC 4442C		H Molecular Ecology		
GLY 4105		Honors Evolution of Life on Earth	3	
BSC 4915		Honors Dir Ind Res in Biology	1-3	
BSC 4930		Honors Systems Neuroscience	3	
PCB 4832C		RI: Neurophysiology	3	