

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW/CHANGE PROGRAM REQUEST</b> <b>Undergraduate Programs</b>		UUPC Approval <u>3/25/24</u> UFS Approval _____ Banner _____ Catalog _____
	Department <sup>N/A</sup> College Honors College		
<b>Program Name</b> Concentration in Biology	<input type="checkbox"/> New Program* <input checked="" type="checkbox"/> Change Program*	<b>Effective Date</b> (TERM & YEAR) Spring 2025	
<p><b>Please explain the requested change(s) and offer rationale below or on an attachment.</b></p> <p>Add the new course, PCB 4841 Honors Cellular Neuroscience, as a Biology Elective.</p>			
<p><small>*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.</small></p>			
<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> N/A	
<b>Approved by</b> Department Chair  College Curriculum Chair <u>Rachel Conn</u> College Dean  UUPC Chair <u>Korey Sorge</u> Undergraduate Studies Dean <u>Dan Meeroff</u> UFS President _____ Provost _____		<b>Date</b> <u>2/29/24</u> <div style="border: 1px solid red; padding: 2px;">2/23/24</div> <u>2/29/24</u> <u>3/25/24</u> <u>3/25/24</u> _____ _____	

Email this form and attachments to [mjennning@fau.edu](mailto:mjennning@fau.edu) seven business days before the UUPC meeting.

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

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

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

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

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

## CONCENTRATION IN BIOLOGY

Students must earn a "C" or better in each course taken to fulfill a concentration requirement.

### 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. Kelsie Bernot (mailto:kbernot@fau.edu?subject=)  
 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. Conrad Toepfer (/honors/faculty/faculty-profiles/profiles/toepfer-conrad/)  
 Dr. Catherine Trivigno (mailto:trivigno@fau.edu)  
 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

## Required 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

## 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.

## Biology Electives

Course #	Course Name	Credits
BSC 1933	Honors Freshman Seminar	3
BSC 2085, 2085L	Anatomy and Physiology 1 and Anatomy and Physiology 1 Lab	4
BSC 3452	Honors Experimental Design and Data Analysis*	3
BSC 4403L	Honors Biotechnology Lab	2
BSC 4442C	Honors Molecular Ecology	3
BSC 4905	Honors Directed Independent Study in Biology	1-3
BSC 4915	Honors Dir Ind Res in Biology	1-3
BSC 4930	Honors Environmental Field Ecology with Lab	5

Course #	Course Name	Credits
BSC 4930	Honors Genomes Biology	3
BSC 4930	Honors System Neuroscience	3
BSC 4930	Honors Eukaryotic Genomes	3
BSC 4930	Honors Environmental Field Ecology	3
BSC 4930	Honors Special Topics in Biology	1-3
PSB 4243	Honors Neuroscience of Addiction	3
BSC 4930	Honors Molecular Pharmacology	3
BSC 4930	Honors Intro to Structural Molecular Biology	2
BSC 4930	Honors Biology of Fishes with Lab	4
BSC 4930	Honors Florida Ecosystem	3
BOT 3501, 3501L	Honors Introduction to Plant Biology with Lab	4
EVR 4420	Honors Marine Conservation	3
EVS 4414	Honors Conservation Biology	3
MCB 3020 (w/3020L)	Honors Microbiology (with Lab)	3 (4)
OCB 3012, 3012L	Honors Marine Biology and Oceanography with Lab	4
GLY 4105	Honors Evolution of Life on Earth	3
PCB 3352	Honors Issues in Human Ecology	3
PCB 3411	Honors Animal Behavior	3
PCB 3703, PCB 3703L	Honors Human Morphology and Function I with Lab	4
PCB 3704, PCB 3704L	Honors Human Morphology and Function II with Lab	4
PCB 4102	Honors Molecular Cell Biology	3
PCB 4043	Honors Principles of Ecology	3

Course #	Course Name	Credits
PCB 4102	Honors Cell Biology	4
PCB 4233	Immunology	3
PCB 4234	Honors Biology of Cancer	3
PCB 4253	Honors Developmental Biology	3
PCB 4414	Honors Behavioral Ecology	4
PCB 4673	Honors Evolution	3
PCB 4832C	RI: Neurophysiology	3
ZOO 2303, 2303L	Honors Vertebrate Zoology with Lab	4
ZOO 4556	Honors Coral Reef Ecology	3
ZOO 4742	Honors Principles of Human Neuroanatomy	3

Add PCB 4841 Honors Cellular Neuroscience, 3cr

*\*BSC 3452 is highly recommended for students planning to attend graduate school.*

*Note: Students in the Max Planck Honors Program may count Introduction to Neuroscience Research (PSB 4003, 1 credit) and two distinct MPHP Enrichment courses (1 credit each) as their 3 credit, Biology elective.*

## Suggested courses for Pre-med students

PHY 2049 Honors General Physics II (4 credits)

PHY 2049L Honors General Physics II Lab (1 credit)

MAC 2312 Honors Calculus II (4 credits)

Other requirements for the Biology concentration: 67 credits (see above)

Total credits: 76

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Florida Atlantic University embodies a culture of strategic and collaborative community engagement that results in mutual benefit to the institution and the diverse internal and external communities that it serves.

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