

FAU FLORIDA ATLANTIC UNIVERSITY	NEW/CHANGE PROGRAM REQUEST Undergraduate Programs		UUPC Approval <u>12/01/25</u> UFS Approval _____ Banner _____ Catalog _____
	Department ^{N/A} College Honors College		
Program Name Biology Concentration		<input type="checkbox"/> New Program* <input checked="" type="checkbox"/> Change Program*	Effective Date (TERM & YEAR) Summer 2026
<p>Please explain the requested change(s) and offer rationale below or on an attachment.</p> <p>Add the following courses to the list of Biology electives, from which students must choose 18 credits: BSC 4892 Honors AI Applications in Biology PCB 3850C Honors Neurobiology Imaging BSC 4957 Ecology of the Mediterranean (this is a study abroad course that will be offered summer 2026 and potentially future summers in France) Change course number for Honors Introduction to Neuroscience from BSC 4930 to PCB 3840.</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>			
Faculty Contact/Email/Phone Kelsie M. Bernot / kbernot@fau.edu		Consult and list departments that may be affected by the change(s) and attach documentation N/A	
Approved by Department Chair <u><i>[Signature]</i></u> College Curriculum Chair <u><i>[Signature]</i></u> College Dean <u><i>[Signature]</i></u> UUPC Chair <u><i>[Signature]</i></u> Undergraduate Studies Dean <u><i>[Signature]</i></u> UFS President _____ Provost _____		Date <u>11/21/2025</u> <u>11-21-2025</u> <u>11-21-25</u> <u>12/01/25</u> <u>12/01/25</u> _____ _____	

Email this form and attachments to mjenning@fau.edu seven business days before the UUPC meeting.

Concentration in Biology

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

NOTE: Due to the significant overlap, students may not double concentrate in Biology and Biomedical Science.

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*](#)

[*Dr. Lucia Carvelli*](#)

[*Dr. Andia Chaves Fonnegra*](#)

[*Dr. Erik Duboue*](#)

[*Dr. Tracy Mincer*](#)

[*Dr. Jon Moore*](#)

[*Dr. Conrad Toepfer*](#)

[*Dr. Catherine Trivigno*](#)

[*Dr. Jim Wetterer*](#)

[Note for Pre-Med students](#) | 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

Course #	Course Name	Credits
STA 2023 or MAC 2312	Honors Introductory Statistics or Honors Calculus II	3-4
PHY 2048 or PHY 2353	Honors General Physics I Honors College Physics 1	4
PHY 2048L	Honors College Physics 1 Lab	1
PHY 2049 or PHY 2354	Honors General Physics II or Honors College Physics II	4
PHY 2049L	Honors General Physics II Lab	1
CHM 2210, 2204L	Honors Organic Chemistry I with Lab	4
CHM 2211, 2205L	Honors Organic Chemistry II with Lab	4
PCB 3063	Honors Genetics	4
	Biology Electives	18
IDS 4970	Honors Thesis (two semesters)	6
	Total Credits	69-70

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 42 upper-level (3000 or 4000-level) credits to graduate.

Biology Electives

Course #	Course Name	Credits
BCH 3033	Honors Biochemistry	3
BOT 3223, BOT 3223L	Vascular Plant Anatomy	4
BSC 1933	Honors Freshman Seminar	3
BSC 3452	Honors Experimental Design and Data Analysis*	3
BSC 4403L	Honors Biotechnology Lab	2
BSC 4442C	Honors Molecular Ecology	3
BSC 4892	Honors AI Applications in Biology	3
BSC 4915	Honors Dir Ind Res in Biology	1-3
BSC 4930	Honors Environmental Field Ecology	3
BSC 4930	Honors Special Topics in Biology	1-3
BSC 4930	Honors Subtropical Ecology with Lab	4
BSC 4930	Honors Intro to Structural Molecular Biology	2
BSC 4930	Honors Biology of Fishes with Lab	4
BSC 4930	Honors Florida Ecosystems	3

BSC 4930	Honors Introduction to Neuroscience	3
BSC 4957	Ecology of the Mediterranean	3
COP 2000	Honors Foundations of Computer Programming	3
EVR 4420	Honors Marine Conservation	3
EVS 4414	Honors Conservation Biology	3
GIS 3044C	Honors Geographic Information Systems	3
GLY 4105	Honors Evolution of Life on Earth	3
GLY 4105	Honors Evolution of Life on Earth	3
MCB 3020 (w/3020L)	Honors Microbiology (with Lab)	3 (4)
PCB 3411	Honors Animal Behavior	3
PCB 3703, 3703L Or BSC 2085, 2085L	Honors Human Morphology and Function I with Lab Or Anatomy and Physiology I and Anatomy and Physiology I Lab	4
PCB 3704, 3704L Or BSC 2086, 2086L	Honors Human Morphology and Function II with Lab Or Anatomy and Physiology II and Anatomy with Lab	4
PCB 3840	Honors Introduction to Neuroscience	3
PCB 3850C	Honors Neurobiology Imaging	3
PCB 4043	Honors Principles of Ecology	3
PCB 4054C	RI: Honors Drosophila Genes and Behavior	3
PCB 4102	Honors Molecular Cell Biology	3
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
PCB 4841	Honors Cellular Neuroscience	3
PSB 3340	Honors Behavioral Neuroscience	3
PSB 3441	Honors Drugs and Behavior	3
PSB 4072	Honors Neurobiology of Mental Illness	3
PSB 4243	Honors Neuroscience of Addiction	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

Additional Electives to be added that are available only for Max Planck Honors Program Students

Course #	Course Name	Credits
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BSC 4934	Honors Scientific Communication	1
PCB 4933C	Honors Advanced Cell Imaging for Neuroscientists	1
PCB 4935	Honors Advanced Genetics	1
PCB 4937C	Honors Advanced Physiology	1
PCB 4956	Honors Advanced Scientific Grant Writing	1
PSB 4003	Introduction to Neuroscience Research	1
PSB 4110	Honors Life Science Technologies	1
PSB 4112C	Honors Advanced Techniques in Neuroscience	1
PSB 4916	Honors Directed Independent Research	0-3
PSB 4922	Honors Symposium Presentation	1
PSB 4931	Honors Special Topics in Neuroscience	1-3
PSB 4932	Max Planck Honors Seminar	1
PSB 4951	Honors Journal Club in Neuroscience	1

*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.