TATI	NEW/CHANGE PROGRAM REQUEST Undergraduate Programs		UUPC Approval 10/7/24
EQU			UFS Approval
FLORIDA ATLANTIC	Department NA		Catalog
UNIVERSITY	College Wilkes Honors College		
Program Name		New Program*	Effective Date (TERM & YEAR)
Concentration	in Biology	✓ Change Program*	Fall 2025
Please explain	the requested change(s) and offer	r rationale below or on an	attachment.
2312. 2. Students would 3. Students would 4. For the elective 5. For the elective 6. BCH 3033 is m 7. The following of BSC 4930 H BSC 4930 H COP 2000 H GIS 3044C H PSB 3340 H PSB 3441 H BSC 4930 H BSC 4930 H BSC 4930 H BSC 4930 H SSC 4930 H S	and changes to existing programs must be ac Email/Phone	253 instead of PHY 2048. 257 PHY 2054. 257 or PCB3703/L. 257 or PCB3704/L. 258 ective course. 4 259 or (CURE) 3 259 gramming 3 259 3 3 3 4 250 or MPHP students.	owing the new or proposed changes. ts that may be affected by the
Approved by			Date /
Department Chair	Millery		9/13/2024
College Curriculum Chair 1 Perie Will			9-13-2024
College Dean This			9/13/24
UUPC Chair Korsy Sorgs			10/7/24
Undergraduate Studies Dean Dan Mescoff			_10/7/24
UFS President			
Provost			

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

Eau	NEW/CHANGE PROGRAM REQUEST Undergraduate Programs		UUPC Approval UFS Approval Banner	
FLORIDA	Department NA		Catalog	
ATLANTIC UNIVERSITY	College Honors			
Program Name		New Program*	Effective Date	
Concentration	ı in Biology	✓ Change Program*	(TERM & YEAR) Fall 2025	
Please explain	the requested change(s) and offe	r rationale below or on ar	ı attachment.	
PSB 4003 BSC 4934 PCB 4933C PCB 4935 PCB 4937C PCB 4956 PSB 4110 PSB 4112C PSB 4916 PSB 4922 PSB 4931 PSB 4932 PSB 4951 9. The following BSC 4905Honor BSC 4930 Honor Eukaryotic Gence 4930 Honors Interview I	classes will be added to the electives Introduction to Neuroscience Researchonors Scientific Communication Honors Advanced Cell Imaging for Nethonors Advanced Genetics 1 Honors Advanced Physiology 1 Honors Advanced Scientific Grant Writhonors Life Science Technologies Honors Advanced Techniques in Neuroscience Advanced Independent Research Honors Directed Independent Research Honors Symposium Presentation Honors Special Topics in Neuroscience Max Planck Honors Seminar 1 Honors Journal Club in Neuroscience classes will be removed from the list of the Environmental Field Ecology; BSC omes; BSC 4930 Honors System Neuroscience Structural Molecular Biology; PCI and changes to existing programs must be a remail/Phone @fau.edu/5617998673	th 1 1 euroscientists 1 iting 1 roscience 1 ch 0-3 1 ce 1-3 1 of electives: BSC 4930 Honors Environme 4930 Honors Genomes Biolo roscience; BSC 4930 Honors B 3352Honors Issues in Hum eccompanied by a catalog entry sh	ogy; BSC 4930 Honors Molecular Pharmacology; BSC nan Ecology; BOT 3501 and lab nowing the new or proposed changes. Its that may be affected by the	
Approved by	MIARELI		Date / 2/222	
Department Chair		17.	1/14/00/4	
College Curriculu	nothair Jevie Rill		9-13-2024	
College Dean	Julie 7	-	9/13/24	
UUPC Chair —	/			
Undergraduate St	udies Dean			
UFS President			·	
Provost				

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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

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
STA 2023	Honors Introductory Statistics	3 <u>-4</u>
<u>or MAC 2312</u>	or Honors Calculus II	
PHY 2048, 2048L	Honors General Physics I with Lab	<u>4</u> 5
or PHY 20 3 53	or Honors College Physics I	
PHY 2048L	Honors Gen Physics I Lab	<u>1</u>
PHY 2049	Honors General Physics II	<u>4</u>
<u>or PHY 20354</u>	or Honors College Physics II	
PHY 2049L	Honors Gen Physics II Lab	<u>1</u>
CHM 2210, 2204L	Honors Organic Chemistry I with Lab	4
CHM 2211, 2205L	Honors Organic Chemistry II with Lab	4
BCH 3033	Honors Biochemistry	3

Course #	Course Name	Credits
PCB 3063	Honors Genetics	4
	Biology Electives	18
IDS 4970	Honors Thesis (two semesters)	6
	Total Credits	6 <u>9-70</u> 7

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

Cours	se # Course Name	Credits
BCH 3033	<u>Honors Biochemistry</u>	<u>3</u>
BSC 1933	Honors Freshman Seminar	3
BSC 2085, 2085L	Anatomy and Physiology 1 and	
	Anatomy and Physiology 1 Lab	
BSC 3452	Honors Experimental Design	3
	and Data Analysis*	
BSC 4403L	Honors Biotechnology Lab	2
BSC 4442C	Honors Molecular Ecology	3
BSC 4905	Honors Directed	1-3
	Independent Study in Biology	
BSC 4915	Honors Dir Ind Res in Biology	1-3
BSC 4930	Honors Environmental Field	5
	Ecology with Lab	
BSC 4930	Honors Genomes Biology	3
BSC 4930	Honors System Neuroscience	3

Course #	Course Name Cre	edits
BSC 4930	Honors Eukaryotic Genomes 3	
BSC 4930	Honors Environmental Field 3 Ecology	
BSC 4930	Honors Special Topics in 1-3 Biology	3
PSB 4243	Honors Neuroscience of 3 Addiction	
BSC 4930	Honors Molecular Pharmacology	
BSC 4930	Honors Intro to Structural 2 Molecular Biology	
BSC 4930	Honors Biology of Fishes with 4 Lab	
BSC 4930	Honors Florida Ecosystems 3	
BOT 3501, 3501L	Honors Introduction 4 to Plant Biology with Lab	
BOT 3223, BOT3223L	Vascular Plant Anatomy 4	
EVR 4420	Honors Marine Conservation 3	
EVS 4414	Honors Conservation Biology 3	
MCB 3020, 3020L	Honors Microbiology (with Lab) 3 (4	4)
OCB 3012, 3012L	Honors Marine Biology 4 and Oceanography with Lab	
GLY 4105	Honors Evolution of Life on 3 Earth	
PCB 3352	Honors Issues in Human Ecology	
PCB 3411	Honors Animal Behavior 3	
PCB 3703, PCB 3703L	Honors Human Morphology and 4	
<u>or BSC 2085, 2085L</u>	Function I with Lab	
	or Anatomy and Physiology 1 and Anatomy and Physiology 1	
	<u>Lab</u>	

	Course #		Course Name	Credits
PCB 3704, PCB 3704L			Honors Human Morphology and 4	
<u>Or BSC 2086, 2086L</u>			Function II with Lab	
			or Anatomy and Physiology II	
			and Anatomy with Lab	
PCB 4102			Honors Molecular Cell Biology	3
PCB 4043			Honors Principles of Ecology	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
Z00 2303, 23	03L		Honors Vertebrate Zoology with Lab	h4
Z00 4556			Honors Coral Reef Ecology	3
Z00 4742			Honors Principles of Human	3
			Neuroanatomy	
Additional Ele	ectives to be Added			
BSC 4930	Honors Subtropical Ecology with Lab	<u>4</u>		
BSC 4930	Honors Drosophila Genes and Behavior (CURE)	<u>3</u>		
COP 2000	Honors Foundations of Computer Programming	<u>3</u>		
GIS 3044C	Honors Geographic Information Systems	<u>3</u>		
PSB 3340	Honors Behavioral Neuroscience	<u>3</u>	1	
PSB 3441	Honors Drugs and Behavior	<u>3</u>		
BSC 4930	Honors Neurobiology of Mental Illness	<u>3</u>		
BSC 4930	Honors Introduction to Neuroscience	<u>3</u>		
BOT 3223	Honors Plant Anatomy with Lab	<u>4</u>		

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

<u>MPHP</u>		
Courses		
PSB 4003	Introduction to Neuroscience Research	<u>1</u>
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 4110	Honors Life Science Technologies	1
PSB 4112C	Honors Advanced Techniques in Neuroscience	1
PSB 4916	Honors Directed Independent Research	<u>0-3</u>
PSB 4922	Honors Symposium Presentation	1
PSB 4931	Honors Special Topics in Neuroscience	<u>1 - 3</u>
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 one of their 3 credit, Biology electives.

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