

 FLORIDA ATLANTIC UNIVERSITY	NEW/CHANGE PROGRAM REQUEST Undergraduate Programs	UUPC Approval <u>3/27/23</u> UFS Approval _____ Banner _____ Catalog _____
	Department ^{N/A} College <u>Wilkes Honors College</u>	
Program Name Concentrations and minors in Environmental Science and Environmental Studies	<input type="checkbox"/> New Program* <input checked="" type="checkbox"/> Change Program*	Effective Date (TERM & YEAR) Fall 2023
Please explain the requested change(s) and offer rationale below or on an attachment. <p>The changes to the concentrations and minors (included on the same webpage since they share the concentration requirements) are mainly course updates for electives. We added courses newer to the catalog and deleted courses we no longer teach.</p> <p>There is one change to the requirements. Honors Microeconomics (ECO 2023) is moved to the social science/humanities electives list, since it is no longer enforced as the prerequisite for Honors Environmental Economics (ECP 4302). Its prereq status was the only reason it was listed as required. This reduces the credits for this concentration by 3 credits</p> <p>We also updated the language of the description of the concentrations and the minors.</p> <p>The rationale is that the changes bring the concentration up-to-date with current courses offerings and facilitate corrections to DARS.</p>		
<small>*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.</small>		
Faculty Contact/Email/Phone William O'Brien/wobrien@fau.edu/6-8033	Consult and list departments that may be affected by the change(s) and attach documentation N/A	
Approved by Department Chair <u>Miguel Ángel Vázquez</u> College Curriculum Chair <u>Rachel Corr</u> College Dean <u>Julie Earles</u> UUPC Chair <u>Ethlyn Williams</u> Undergraduate Studies Dean <u>Dan Meeroff</u> UFS President _____ Provost _____	Date <u>3/20/23</u> <div style="border: 1px solid red; padding: 2px;">3/20/2023</div> <u>3 20 2023</u> <u>3/27/23</u> <u>3/27/23</u> _____ _____	

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

CONCENTRATIONS IN ENVIRONMENTAL AND STUDIES/ENVIRONMENTAL SCIENCE

Remove the / , replace with "AND"

The Environmental Studies and Environmental Science concentrations are designed to provide an interdisciplinary education in environmental issues that draws from the natural sciences, social sciences and humanities. The required courses provide all environmental studies/science students the opportunity to ground themselves in relevant concepts and topics, as well as scientific methodologies and mapping skills that span the disciplines. Beyond these requirements, students who wish to explore the natural science aspects of these issues in more depth may pursue the Environmental Science Concentration (23-27 credits in addition to required courses), while those with greater interest in social science/humanities and policy themes may pursue the Environmental Studies Concentration (18-19 credits in addition to required courses). In addition to concentration requirements, students are strongly advised to complete an environmental studies internship to fulfill that graduation requirement. **Environmental Studies/Science graduates may also qualify to apply for and receive the Certificate in Environmental Studies from FAU.**



Advisory Board:

Dr. Jon Moore
Dr. William O'Brien
Dr. Jim Wetterer

Remove the above
reference
to the certificate

Courses

Available Options: Environmental Science Concentration (B.S. or B.A.), Environmental Studies Concentration (B.A.), **Minor Concentration.**

Required Courses: These courses are required for both concentrations. **Remove -- moved to just below**

REQUIRED COURSES: **These courses are required for both concentrations**

Course #	Course Name	Credits	
EVR 2017	Honors Environment and Society	3	
PCB 3352, <i>or</i> PCB 4043	Honors Issues in Human Ecology, <i>or</i> Honors Principles of Ecology	3	
PHI 3682	Honors Environmental Philosophy	3	
BSC 1011, 1011L	Honors Biodiversity, with Lab	4	
ECO 2023	Honors Microeconomic Principles	3	Remove -- a prereq for ECP 4302 but not enforced (moving ECO 2023 to electives list)
ECP 4302	Honors Environmental Economics	3	

Course #	Course Name	Credits
CHM 2045, 2045L	Honors General Chemistry I, with Lab	4
STA 2023	Honors Introductory Statistics	3
GEO 3044C	Honors Geographic Information Systems	3
IDS 4970	Honors Thesis (two semesters)	6
	Total Credits (<i>gateway courses</i>)	35 32 credits (removing Microecon)

Add a line of separation

Environmental Science Concentration: In addition to the required courses listed above, students in this concentration must take the following courses:

ENVIRONMENTAL SCIENCE CONCENTRATION COURSES

Course #	Course Name	Credits
CHM 2046, 2046L	Honors General Chemistry II, with Lab	4
CHM 2210, 2204L	Honors Organic Chemistry I, with Lab*	4
	Science Electives from 2 or more disciplines**	12-16
	Humanities / Social Science Elective	3
	Total Credits (<i>environmental science concentration</i>)	23-27
	Total Credits (<i>incl. required courses</i>)	58-62 55-59 credits

* *Students are strongly encouraged to take CHM 2211 / 2211L, Organic Chemistry II with Lab.*

** *BSC 1005 & 1005L may not be counted as a science elective.*

Add a line of separation

Environmental Studies Concentration: In addition to the required courses listed above, students in this concentration must take the following courses:

ENVIRONMENTAL STUDIES CONCENTRATION COURSES

Course #	Course Name	Credits
	Science Elective	3-4
	Humanities / Social Science Electives	15

Course #	Course Name	Credits
	Total Credits (<i>environmental studies concentration</i>)	18-19
	Total Credits (<i>including required courses</i>)	53-54 50-51 credits

Add a line of separation

Science Electives: Courses on this list may be used to fill the science electives section of both the Environmental Science and Environmental Studies concentrations (except as indicated above). Please be aware that some courses on this list have prerequisites. Students are reminded that they need 45 upper-level (3000 or 4000-level) credits to graduate.

SCIENCE ELECTIVES

Course #	Course Name	Credits
BCH 3033, 3033L	Honors Biochemistry with Lab optional	3 or 4cr (i.e., not nec. to take both)
BOT 3501, 3501L or BOT 3223, 3223L BSC 4442	Honors Intro. to Plant Biology with Lab or Vascular Plant Anatomy and Lab Honors Molecular Ecology	4 3cr
BSC 1010, 1010L BSC 3452	Honors Biological Principles Honors Experimental Design & Data Analysis	4 3cr
BSC 1933 BSC 4930	Honors Freshman Seminar in Biology Honors Special Topics in Biology (various titles)	3 3cr (All titles count)
CHM 1020C BSC 1933	Honors Contemporary Chemical Issues Honors Freshman Seminar in Biology	3 3cr
CHM 2046, 2046L	Honors General Chemistry II with Lab	4
CHM 2210, 2204L	Honors Organic Chemistry I with Lab	4
CHM 2211, 2205L	Honors Organic Chemistry II with Lab	4
CHM 3085	Honors Environmental Chemistry	3
CHM 3609, 3609L	Honors Inorganic Chemistry with Lab	4
CHM 3121, 3121L	Honors Quantitative Analysis with Lab	4cr
CHM 4135, 4135L	Honors Instrumental Methods of Analysis with Lab	4
EVR 1001	Honors Environmental Science and Sustainability	3
EVR 4420	Honors Marine Conservation	3
EVS 4414	Honors Conservation Biology	3
GEO 4930 GLY 4105	Honors Special Topics in Geography* Honors Evolution of Life on Earth	3 3cr

Course #	Course Name	Credits
OCB 3012, 3012L	Honors Marine Biology and Oceanography with Lab	4
MCB 3020, 3020L	Honors Microbiology and Lab	4cr
OCB 2000	Honors Survey of Marine Biology	3
OCE 2001	Honors Introduction to Oceanography	3
PCB 3351, 3351L	Honors Tropical Rainforest with Lab	6
PCB 3352	Honors Issues in Human Ecology	3cr
PCB 3411	Honors Animal Behavior	3
PCB 4043	Honors Principles of Ecology	3
PCB 4414	Honors Behavioral Ecology	4
PCB 4673	Honors Evolution	3
PHY 2048, 2048L	Honors General Physics I with Lab	5
PHY 2049, 2049L	Honors General Physics II with Lab	5
PHY 2020	Honors Conceptual Physics	3
PSC 2512C	Honors Energy and the Environment	4
ZOO 4556	Honors Coral Reef Ecology	3cr
ZOO 2303, 2303L	Honors Vertebrate Zoology with Lab	4

Remove -- course no longer offered

Remove

Remove -- no longer offered

Humanities and Social Science Electives: Courses on this list may be used to fill the social science and humanities electives section of both the Environmental Science and Environmental Studies concentrations. Please be aware that some courses on this list have prerequisites.

HUMANITIES AND SOCIAL SCIENCE ELECTIVES

Course #	Course Name	Credits
AMH 3630	Honors American Environmental History	3
ART 3275C	H Scientific Illustration	4cr
ART 3277C	H Introduction to Botanical Art Illustration	4cr
ART 3840C	Honors Environmental Art	4
ECO 2013	Honors Macroeconomic Principles	3
ECO 2023	H Microeconomic Principles	3
ECS 3013	Honors International Economic Development	3
ENC 3362	Honors Environmental Writing and Rhetoric	3

Course #	Course Name	Credits	
EUH 3618	Honors Sense of Place Across Time	3	
EVR 1933*	Honors Freshman Seminar in Environmental Studies	3	
EVR 3421	Honors Parks and Preservation	3	
EVR 3314	Honors Energy Resources: Trends, Policy, Environment	3	
EVR 4930*	Honors Special Topics in Environmental Studies	3	
EVS 3403	Honors Global Environmental Issues	3	
GEO 2370	Honors Conservation and Use of Natural Resources	3	Delete, no longer in catalog
GEO 4930 +	Honors Special Topics in Geography	3	
IDS 3131C	Honors Audubon's Nature: Scientific Illustration	4	
IDS 4933	Honors Race, Gender, and Environmentalism	3cr	
LIT 4434	Honors Literature and the Environment	3	
PHI 3644	Honors Obligations	3	
POS 3691	Honors Law and American Society	3	
POS 4603	Honors Constitutional Law 1	3	
POS 4604	Honors Constitutional Law 2	3cr	
SYD 4792	Honors Race, Gender, Class, Sexuality and Science	3	
SYP 4803	Honors Gender and Technology	3	

* Can Count multiple times given different topics.

+ Human geography topics may count for social science elective credit.

Non-Honors College course.

Minor Concentration: The minor concentration in Environmental Studies consists of at least 18 credit hours from relevant courses in the natural sciences, social sciences and humanities, at least 9 of which must be upper division courses. *To count toward the minor, a course must be guided by an explicit environmental theme.* At least 6 credits must be in the social sciences and humanities, while at least 3 credits of the minor must be from a relevant natural science. Per College policy, only 4 credits used to satisfy the student's concentration may overlap with the minor concentration. At least 50 percent of upper level credits must be taken at the Wilkes Honors College. Students must maintain a 2.0 in courses taken for the minor concentration. Courses that count for the minor concentration are listed below. Special Topics and Freshman Seminar courses, besides those in Environmental Studies, as well as relevant team-taught ICIS courses, must be approved by the Environmental Studies advisory Board to ensure that course content reflects an environmental theme.

ENVIRONMENTAL STUDIES MINOR CONCENTRATION

SOCIAL SCIENCE AND HUMANITIES COURSES

Course #	Course Name	Credits
AMH 3630	Honors American Environmental History	3
ART 3840C	Honors Environmental Art	4
ECP 4302	Honors Environmental Economics	3
ENC 3362	Honors Environmental Writing and Rhetoric	3
EVR 1933	Honors Freshman Seminar in Environmental Studies	3
EVR 2017	Honors Environment and Society	3
EVR 3421	Honors Parks and Preservation	3
EVR 3314	Honors Energy Resources: Trends, Policy, Environment	3
EVR 4930	Honors Special Topics in Environmental Studies	3
EVS 3403	Honors Global Environmental Issues	3
GEO 2370	Honors Conservation and Use of Natural Resources	3
GEO 4930	Honors Special Topics in Geography	3
GIS 3044C	Honors Geographic Information Systems	3cr
IDS 3131C	Honors Audubon's Nature: Scientific Illustration	3
IDS 4933	Honors Race, Gender, and Environmentalism	3cr
LIT 4434	Honors Literature and the Environment	3
PHI 3682	Honors Environmental Philosophy	3

NATURAL SCIENCE COURSES

Course #	Course Name	Credits
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Course #	Course Name	Credits
BSC 1011, 1011L	Honors Biodiversity with Lab	4
BSC 1933	Honors Freshman Seminar in Biology	3
BSC 4930	Honors Special Topics in Biology (various titles)	3cr
CHM 1025C	Honors Contemporary Chemical Issues	3
CHM 3080	Honors Environmental Chemistry	3
EVR 1001	Honors Environmental Science and Sustainability	3cr
EVR 4420	Honors Marine Conservation	3
EVS 4414	Honors Conservation Biology	3
GEO 3044C	Honors Geographic Information Systems	3
GLY 4105	Honors Evolution of Life on Earth	3cr
OCB 3012, 3012L	Honors Marine Biology and Oceanography, with Lab	4
OCB 2000	Honors Survey of Marine Biology	3cr
PCB 3351, 3351L	Honors Tropical Rainforest with Lab	6
OCE 2001	Honors Introduction to Oceanography	3cr
PCB 3352	Honors Issues in Human Ecology	3
PCB 4043	Honors Principles of Ecology	3
PSC 2514C	Honors Energy and the Environment	4
ZOO 4556	Honors Coral Reef Ecology	3cr

Add: PCB 4414 H Behavioral Ecology

Add: PCB 3411 H Animal Behavior