

**B.S. in ENVIRONMENTAL STUDIES 2018-2019 CATALOG**

<b>I. State Core</b>	<b>II. Foreign Language Admission Requirement (0-8 hrs)</b>	<b>V. Environmental Studies Fundamentals (19 hrs)</b>
◊ <b>One (1) Florida State Core course is required per each of the five (5) GEP Foundations.</b>	Two years high school, or two semesters of college level language (or equivalent) prior to graduation.	IDS 3150 Foundations of Environmental Studies 3 hrs (PR: Junior standing, complete GEP Math & Science)
*Consider Gordon Rule Writing (GRW) and State Core Requirements (◊) for your B3 course selection.	<b>III. Foreign Language Graduation Requirement (4 hrs)</b>	
<b>I. General Education Program (38 hrs)</b>	Proficiency equivalent to one semester of college instruction in a foreign language or American Sign Language. Standardized examinations for foreign languages may be used to meet this requirement, such as the Foreign Language Proficiency Exam.	ECP 3302 Economics & the Environment 3 hrs (PR: ECO 2023)
<b>Communication Foundations (9 hrs)</b>	For additional information on the Foreign Language Achievement Testing Service (FLATS) commonly known as Foreign Language Proficiency Exam (FLPE), visit the <b>University Testing Center</b> <a href="http://www.utc.sdes.ucf.edu/flpe">www.utc.sdes.ucf.edu/flpe</a>	GIS 3043C GIS for Environmental Studies 4 hrs
A1. Select ◊ ENC 1101	<b>IV. Environmental Studies Core (GEP + 11 hrs)</b>	GIS 4301C Advanced GIS for Environmental Studies 3 hrs (PR: GIS 3043C)
A2. Select ENC 1102	<b>A. Physical/Mathematical Sciences</b>	PUP 3203 Environmental Politics 3 hrs (PR: ENC 1102 or POS 2041 or C.I.)
A3. Recommend SPC 1608 or SPC 1603	◊ CHM 2045C Chemistry Fundamentals I* GEP	SYD 4510 Environment and Society 3 hrs (PR: SYG 2000 or Junior standing)
<b>Cultural and Historical Foundations (9 hrs)</b>	*or CHM 2040 (Chem 1A) & CHM 2041 (Chem 1B) 3+3 hrs based on Chemistry Placement Test results	<b>VI. Concentration Area (18 hrs)</b>
B1. Select one of the following:	◊ MAC 1105 College Algebra or higher GEP	Students will complete 18 hrs in one concentration.
AMH 2010 EUH 2000	PSC 1121 Physical Science* 3 hrs	<b>Sciences</b> 18 hrs
EUH 2001 ◊ HUM 2020	*or PHY 1038 Energy Climate Change 3 hrs	or
HUM 2210 HUM 2230	*or GLY 2038 Environmental Geoscience 4 hrs	<b>Values, Planning, and Policy</b> 18 hrs
WOH 2012 WOH2022	◊ STA 2023 Statistical Methods I GEP	<b>VII. Environmental Studies Capstone (3 hrs)</b>
B2. Select one of the following:	<b>B. Life Sciences</b>	IDS 4893 Environmental Studies Capstone*
ARH 2050 ARH 2051	◊ BSC 2010C Biology I GEP	*Must be taken in graduating semester. Prerequisite is filing Intent to Graduate.
FIL 1000 FIL 2030	BSC 2011C Biology II 4 hrs (PR: BSC 2010C)	<b>VIII. Service Learning/Internship/or Research (3 hrs)</b>
LIT 2110 LIT 2120	PCB 3044+L Principles of Ecology & Lab (PR: BSC 2011C, and CHM 2041 or CHM 2045C)	Three (3) credits hours of undergraduate research, internship, and/or service learning. Students may substitute proficiency or instruction in a foreign language equivalent to the second college semester for this requirement. Standardized examinations for foreign languages may be used to meet this requirement, such as the Foreign Language Proficiency Exam.
MUH 2017 MUH 2019	<b>C. Social Science &amp; Humanities</b>	For information on Internships and Service Learning visit the <b>Office of Experiential Learning</b> <a href="http://www.explearning.ucf.edu">www.explearning.ucf.edu</a>
◊ MUL 2010 MUL 2016	ECO 2023 Microeconomics GEP	For information on Research opportunities, visit the <b>Office of Undergraduate Research</b> <a href="http://www.our.ucf.edu">www.our.ucf.edu</a>
MUL 2720 ◊ PHI 2010	◊ SYG 2000 Sociology GEP	
REL 2300 ◊ THE 2000	<b>NOTES:</b>	
B3. Take one additional course from either B1 or B2*	* If you are interested in a career involving field or lab work, we <b>STRONGLY RECOMMEND</b> that you take additional Chemistry (e.g. CHM 2046 & CHM 2210)	
<b>Mathematical Foundations (6 hrs)</b>	* Additional Internships, Co-ops, and/or Research are also <b>HIGHLY RECOMMENDED</b> .	
C1. Select ◊ MAC 1105 or higher		
C2. Select ◊ STA 2023		
<b>Social Foundations (6 hrs)</b>		
D1. Select ECO 2023		
D2. Select ◊ SYG 2000		
<b>Science Foundations (6 hrs)</b>		
E1. Select ◊ CHM 2045 or CHM 2040 & 2041		
E2. Select ◊ BSC 2010C		
<b>Civic Literacy Requirement (0-3 hrs)</b>		
Students who initially entered a FL state university in Fall 2018 or later must successfully complete one of the following options:		
1. POS 2041 <u>OR</u> AMH 2020		
2. Minimum score of 60 on U.S. Citizenship and Immigration Services Naturalization Test - Civics (U.S. History and Government) with supplemental questions		
3. Minimum score of 3 on AP Government & Politics: United States, <u>OR</u> of 4 on AP United States History		
4. Minimum score of 50 on CLEP American Government		

<b>Sciences Concentration:</b>		<b>Values, Planning &amp; Policy Concentration:</b>	
BCH 4053 Biochemistry I (3)	PR: CHM 2211	ANT 3541 Biobehavioral Anthropology (3)	PR: ANT 2000 or ANT 2511
BCH 4054 Biochemistry II (3)	PR: BCH 4053	ANT 3550C Primatology (3)	PR: ANT 2511 or BSC 2010C
BOT 3015 Principles of Plant Science (3)	PR: BSC 2011C	ANT 3701 Applied Anthropology (3)	PR: ANT 2000 or ANT 2410
BOT 3018C Culinary Botany Across Culture (3)	PR: BOT 3802	ANT 4051 Environmental Anthropology (3)	PR: ANT 2140 or Junior Standing
BOT 3802 Ethnobotany (3)	PR: BSC 2010C/2011C	ANT 4187 Paleoethnobotany (3)	PR: one 2000 level ANT and one BSC
BOT 4223C Plant Anatomy (4)	PR: BOT 3802	ANT 4467 Nutritional Anthropology (3)	PR: ANT 2140, Junior Standing
BOT 4282L Plant Microtechniques (2)	PR: BOT 4223C or CI	BSC 4861L Urban Ecological Field Studies (3)	PR: BSC 2010C
BOT 4303C Plant Kingdom (5)	PR: BOT 3802	CPO 4794 Indigenous Politics & the Environment (3)	PR: POS 2041
BOT 4434C General Mycology (4)	PR: BSC 2010C & MCB 3020C, or BSC 2011C	ECP 4303 Environmental & Natural Resource Economics (3)	PR: ECO 3101
BOT 4503 Plant Physiology (3)	PR: PCB 3023	ENC 3241 Writing for the Technical Professional (3)	PR: ENC 1102, Junior Standing
BOT 4713C Plant Taxonomy (5)	PR: BOT 3802	ENV 3001 Introduction to Environmental Engineering (3)	PR: MAC 2312 & CHM 2045 or CHS 1440
BOT 4850 Medicinal Botany (3)	PR: PCB 3522 or PCB 3023	HSC 4500 Epidemiology (3)	PR: STA 2023
BSC 3052 Conservation Biology (3)	PR: PCB 3044	INR 3016 Global Political Issues (3)	PR: POS 2041
BSC 3312 Principles of Marine Biology (3)	PR: BSC 2010C/2011C	INR 4054 Global Politics of Energy (3)	PR: POS 2041 or ENC 1102
BSC 4312C Advanced Marine Biology (4)	PR: PCB 3044, BSC 3312	INR 4350 Global Environmental Politics (3)	PR: POS 2041 or ENC 1102
BSC 4330 Invasion Biology (3)	PR: PCB 3044	INR 4351 International Environmental Law (3)	PR: POS 2041 or ENC 1102
BSC 4821 Biogeography (4)	PR: PCB 3044, PCB 4683	LIT 3437 International Environmental Justice Literature (3)	PR: ENC 1102
BSC 4861L Urban Ecological Field Studies	PR: BSC 2010C	PAD 3330 Urban and Regional Planning (3)	PR: Junior Standing, U & RP minor
CHM 3120 Analytical Chemistry (3)	PR: CHM 2046+L	PAD 4331 Land Use and Planning (3)	PR: Junior Standing, U & RP minor
CHS 4615 Environmental Chemistry (3)	PR: CHM 2046	PAD 4351 Issues in Environmental Program Management (3)	PR: Junior Standing, U & RP minor
ENY 3571 Honey Bee Biology & Beekeeping (3)	PR: BSC 2010C/2011C and CI	PHH 3701 Native American Philosophy (3)	PR: PHI 2010
ENY 4004C General Entomology (4)	PR: BSC 2010C/2011C	PHI 3033 Philosophy, Religion & the Environment (3)	PR: Junior Standing
GLY 4730 Marine Geology (3)	PR: Junior Standing	PHI 3638 Ethical Issues in the 21st Century (3)	PR: PHI 2010 or C.I.
MCB 4603 Environmental Microbiology (3)	PR: MCB 3020C	PHI 3640 Environmental Ethics (3)	PR: Junior Standing
OCE 3008 Oceanography (3)	PR: BSC 2010C, CHM 2045C/2046	PHI 3672 Animal Ethics (3)	PR: PHI 2010
PAZ 4234 Zoo & Aquarium Management (3)	PR: PCB 3044, PCB 3063	PHI 4400 Philosophy of Science (3)	PR: Junior Standing or PHI 2010
PCB 3023 Molecular Cell Biology (3)	PR: BSC 2010C, CHM 2210, PCB 3063	PHI 4633 Ethics and Biological Science (3)	PR: Completion of GEP
PCB 3063 Genetics (3)	PR: BSC 2010C, CHM 2046	PHM 4031 Environmental Philosophy (3)	PR: PHI 2630 or PHI 3640
PCB 3343L Principles of Field Ecology (2-5)	PR: BSC 2011C, PCB 3044	PLA 4554 Environmental Law (3)	PR: PLA 3014, Junior Standing
PCB 3354 Tropical Ecology & Conservation (3)	PR: PCB 3044	PSY 3630 Psychology of Human-Animal Interaction (3)	PR: PSY 2012
PCB 3355L Tropical Marine Bio (2) * <i>Stdy Abrd</i>	PR: BSC 2010C/2011C	PUP 3204 Sustainability (3)	PR: ENC 1102
PCB 3442 Aquatic Ecology (3)	PR: BSC 2010C/2011C	PUP 4209 Urban Environmental Policy (3)	PR: POS 2041 or ENC 1102
PCB 4353 Florida Ecology, Natural His., & Conc. (3)	PR: PCB 3044	REE 3614 Environmental Issues for Real Estate (3)	PR: REE 3043, REE 3433, minor
PCB 4514 Genetics II (3)	PR: PCB 3063	SYD 4514 Environmental Movement (3)	PR: SYG 2000 or ANT 2000 or PSY2012
PCB 4683 Evolutionary Biology (4)	PR: PCB 3044, PCB 3063	SYO 3408 Animals and Health (3)	PR: SYG 2000 or ANT 2000 or PSY2012
PCB 4683 Evolutionary Biology Lab (1)	PR or CR: PCB 4683	WST 4349 Ecofeminism (3)	PR: ENC 1102, WST 3015
PCB 4684 Population Genetics (3)	PR: PCB 3063, PCB 4683		
PCB 4723 Animal Physiology (4)	PR: PCB 3023		
PCB 4802 Comparative Endocrinology (3)	PR: PCB 3023, PCB 3044		
ZOO 3454 Ichthyology	PR: "C" or better in PCB 3063 & PCB 3044		
ZOO 3713C Comparative Vert. Anatomy (5)	PR: BSC 2010C/2011C		
ZOO 4205C Bio & Eco of Metazoan Invert. (4)	PR: BSC 2010C/2011C, PCB 3044		
ZOO 4310C Vertebrate Evolution & Ecology (4)	PR: BSC 2010C/2011C, PCB 3044, PCB 3063		
ZOO 4462C Herpetology (4)	PR: C.I. (Consent of Instructor)		
ZOO 4480 Mammalogy (4)	PR: BSC 2010C/2011C		
ZOO 4480L Mammalogy Lab (1)	CR: ZOO 4480		
ZOO 4513 Animal Behavior (3)	PR: PCB 3044		
ZOO 4603C Embryology/Development (5)	PR: PCB 3063 & PCB 3023 or PCB 3522		
ZOO 4753C Vertebrate Histology (4)	PR: ZOO 4513		
ZOO 4910L Research in Animal Behavior	PR: ZOO 3733C		

Students must select 18 credit hours in Sciences or VPP Concentration