

# ENVIRONMENTAL SCIENCE - BS (120 hours)

Effective 2012

NAME _____	PID _____	Optional 2 <sup>nd</sup> Major or Minor _____
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## FOUNDATIONS

English Comp. and Rhetoric	Foreign Language* HSFL(s) _____	Quant. Reas. (QR)	Lifetime Fitness (LFIT)
ENGL 105 _____	1. _____	MATH 231 _____	(1 hr.)
	2. _____		
	4. _____		

\* Through Level 3

## APPROACHES

Phys. and Life Sciences (PL/PX)	Social and Behavioral Sciences **	Humanities/Fine Arts
BIOL 101/101L _____/_____	Hist. Analysis (HS): _____	Vis. & Perf. Arts (VP): _____
	Soc. Sci./Hist. Analysis (SS/HS): *** _____	Literary Arts (LA): _____
CHEM 101/101L _____/_____	Soc. Sci./Hist. Analysis (SS/HS): ENST 201 _____	Phil. Reasoning (PH): ****

\*\* From at least two departments \*\*\* ECON 101 recommended \*\*\*\*ENST/PHIL 368 recommended

## CONNECTIONS

Communication Int. (CI)	Quant. Int. (QI) or 2nd Quant. Reas. (QR)	Experiential Ed. (EE)	Global Issues (GL)
BIOL 101/L _____	MATH 232 _____	ENST 698 _____	ENST 201 _____
US Diversity (US)	North Atlantic World (NA)	World before 1750 (WB)	Beyond the NA (BN)

## MAJOR/MINOR/ELECTIVES

Other Requirements (8 courses) #	ENVIRONMENTAL SCIENCE MAJOR CORE Concentration _____	Required Minor****: _____	Electives
CHEM 102/L _____/_____	** _____	*** _____	
COMP 116 _____	** _____	*** _____	
ENST 201 _____	** _____	*** _____	
ENST 203 _____	ENST 698 _____	*** _____	
MATH 233 _____	<b>MATH/SCIENCE ELECTIVES</b>		
PHYS 116 _____	Two courses from one of the following options:		
PHYS 117 _____	a. ENST 415 and MATH 383		
STOR 155 or BIOS 600 _____	b. GEOG 370, 477, 491, 577, 591		
	c. ENST 562; STOR 455, 456		
	d. BIOL 201, 202; CHEM 261		

# These courses should be taken prior to the Junior year.

♦18 hours ≥ C (not C-) required in core.

♦♦ Three of the following courses: ENST 222, ENST/PWAD 108, ENST/GEOG 253, ENST/GEOL 213, GEOG 110, GEOL 110, MASC 108, PHYS 108

♦♦♦ Concentration area (four courses one area) listed on reverse of worksheet or concentration approved by CEP Director of Student Affairs (copy to Academic Advising).

Contact the CEP Director of Student Affairs for approval of the minor courses.

See back for listing of approved minors, course sequences and concentration courses.

**This tally assumes successful completion of presently enrolled courses (not AB or IN), and it does not account for all possible overlaps**

Date/Advisor	Date/Advisor	Date/Advisor	Date/Advisor
Remaining courses after this term: _____ Foundations _____ _____ Approaches _____ _____ Connections _____ _____ Supplemental _____ _____ Major 1 (hrs C _____) _____ _____ Major /minor (hrs C____) _____ _____ Other _____ ----- Hrs to date: _____ Hrs. in progress: _____ Total after this term: _____ - 2x/HSFL/>24 _____ Hrs remaining to grad _____ Semesters Left: _____	Remaining courses after this term: _____ Foundations _____ _____ Approaches _____ _____ Connections _____ _____ Supplemental _____ _____ Major 1 (hrs C _____) _____ _____ Major /minor (hrs C____) _____ _____ Other _____ ----- Hrs to date: _____ Hrs. in progress: _____ Total after this term: _____ - 2x/HSFL/>24 _____ Hrs remaining to grad _____ Semesters Left: _____	Remaining courses after this term: _____ Foundations _____ _____ Approaches _____ _____ Connections _____ _____ Supplemental _____ _____ Major 1 (hrs C _____) _____ _____ Major /minor (hrs C____) _____ _____ Other _____ ----- Hrs to date: _____ Hrs. in progress: _____ Total after this term: _____ - 2x/HSFL/>24 _____ Hrs remaining to grad _____ Semesters Left: _____	Remaining courses after this term: _____ Foundations _____ _____ Approaches _____ _____ Connections _____ _____ Supplemental _____ _____ Major 1 (hrs C _____) _____ _____ Major /minor (hrs C____) _____ _____ Other _____ ----- Hrs to date: _____ Hrs. in progress: _____ Total after this term: _____ - 2x/HSFL/>24 _____ Hrs remaining to grad _____ Semesters Left: _____

## ENVIRONMENTAL SCIENCE

Choose one of the following course sequences fulfilling a minor or the Physical Geography sequence.

**NOTE: Only one course may also count in the major.**

Biology: Two of BIOL 201, 202, 205; one BIOL course with lab and one BIOL >400

Chemistry: CHEM 241 or 241H, 241L or 245L, 261 or 261H, 262 or 262H, 262L or 263L

Computer Science: Five courses: COMP 401; COMP 410 or 411; three additional COMP > 400

Geology: At least 12 hrs including one introductory course (GEOL 101, 103, 105, 109, 110, or 159) and at least three GEOL higher than 110. Only one of GEOL 101, 105, 109 and 110 may be taken for course credit.

Geography\*: To minor in geography a student must pass a minimum of five courses in geography. These consist of any two core courses (GEOG 110, 111, 112, 120, 121, 130, 370, 420) and three elective courses. Elective courses may be any on the departmental list, but students are encouraged to pursue elective courses focused in one of geography's major concentrations and from among the regional courses.

\* The ENST/ENSC faculty expects you to follow the physical geography courses – two GEOG courses from 110, 120, 370, 410, 420 and three GEOG courses from 410, 412, 414, 416, 419, 440, 441, 442, 444, 595 or three of GEOG 370, 477, 491, 577, 591. Also, please consult with your ENST faculty advisor for approval of other courses not listed.

Marine Science: Four courses, one from each of four areas:

- 1) Global oceanic processes: MASC 101, 401
- 2) Coastal ocean: MASC223, 411, 430, 436, 440, 442, 448, 449, 470, 471, 472 or equivalent course with focus on the coast ocean, approved by the Director of Undergraduate Studies
- 3) Practical experience:
  - Field courses: MASC 430, 436, 448, 470, 471, 472
  - Lab courses: MASC 410, 431, 445, 51
  - Mathematical modeling courses: MASC 415, 480, 483, 561
- 4) MASC course of the student's choosing

Mathematics: Math 381, 383, and three Math courses chosen from 435 or above 520

Math Dec. Science: STOR 155, STOR 215 and three courses from STOR 305, 355, 356, 372, 415, 435, 445, 465, 472, 555.

Physical Geography: Five courses including two of GEOG 110, 120, 370, 420 and three of GEOG 410, 412, 414, 416, 419, 440, 441, 442, 444, 595 or three of GEOG 370, 477, 491, 577, 591.

Physics:

- Track 1 (Physics): PHYS 116, 117, 128, 128L, and two PHYS > 200 that have as prerequisites one or more of these three courses.  
Track 2 (Astronomy): PHYS 116, 117, 128, 128L and two courses chosen from ASTR 291, 201, and 519.

## CONCENTRATIONS

### ***Earth, Water, and Climate***

BIOL 350/ENVR 417/GEOL 403/MASC 401; ENST 222; ENST/ENVR 403; ENST 415/ENVR 461/GEOL 415/MASC 415; ENST 450/ENVR 415/GEOL 450/MASC 450; ENST/GEOG 253; ENST/GEOL/MASC 411; ENVR 413, 415, 416, 419, 453; GEOG 370, 412, 414, 416, 440; GEOL 202, 211, 213, 417, 417L, 430, 432, 483, 508, 509, 510; MASC 312, 314, 390, 432, 460, 490, 503

### ***Ecology and Natural Resources***

BIOL 201, 272, 277/277L, 402, 463, 464, 465, 469, 471/471L, 476/476L, 561, 565, 568; BIOL/ECOL/ENST 461, 562; BIOL 253/ENST 404; BIOL 462/MASC 440; ENST 222, 261, 352, 462, 489; ENST 450/ENVR 415/GEOL 450/MASC 450; ENST/MASC 471; ENVR 449; GEOG 264, 444; MASC 440, 443, 444, 445, 504

### ***Energy and Sustainability***

ENST 307, 350, 415, 431, 479, 581, 585, 586, 685; ENST 415/ENVR 460/MASC 415; ENST/PLCY 480, 585, 686; ENVR 451; GEOL 215; PHYS 131/131L

### ***Environment and Health***

BIOL 402, 568; BIOL/PATH 128; ENST 222; ENST/ENVR 522; ENVR 403, 412, 413, 416, 419, 421, 430, 431, 442, 451, 600; EPID 600; MASC 443, 444