

# ENVIRONMENTAL SCIENCE - BS, Quantitative Energy Systems Track (120 hours) Effective 2017

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

English Comp. and Rhetoric	Foreign Language* HSFL(s) _____	Quant. Reas. (QR)	Lifetime Fitness (LFIT)
	1. _____	<b>MATH 231</b>	(1 hr.)
	2. _____		
	3. _____		
	4. _____		

\* Through Level 3

## APPROACHES

Phys. and Life Sciences (PL/PX)	Social and Behavioral Sciences **	Humanities/Fine Arts
CHEM 101/101L or PHYS 114 or 118	Hist. Analysis (HS):	Vis. & Perf. Arts (VP):
<b>BIOL 101</b> <b>BIOL 101L</b>	Soc. Sci./Hist. Analysis (SS/HS): ***	Literary Arts (LA):
	Soc. Sci./Hist. Analysis (SS/HS): <b>ENEC 201</b>	Phil. Reasoning (PH): ****

\*\* From at least two departments \*\*\* ECON 101 recommended \*\*\*\*ENEC 325, COMM/ENEC, 375, or ENEC/  
PHIL 368 recommended

## CONNECTIONS

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

## MAJOR/MINOR/ELECTIVES

Additional Requirements (8-10 courses)	ENVIRONMENTAL SCIENCE Core Requirements (11 courses) ♦			
	Concentration ‡ (4 courses)			
BIOL 101 BIOL 101L	ENEC 201			
	ENEC 203			
CHEM 101/101L or PHYS 114 or 118	ENEC 698			
	(#)			
CHEM 102/102L or PHYS 115 or 119				
MATH 231				
MATH 232				
MATH 233				
COMP 110 or 116 or PHYS 331*				
Recommended courses are ENEC 202 (PX), ECON 101 (SS), STOR 155 (QR) or BIOS 600, and one of the following PH courses: ENEC 325, COMM/ENEC 375, or PHIL/ENEC 368.				

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

\* PHYS 331 Prerequisite, one of PHYS 104, 114, 116, 118; pre- or corequisite, MATH 383.

(#) Two courses each from two of the following quantitative skills:

o Informatics: INLS 151, 161; STOR 215, 305

o Applied Mathematics: MATH 381, 383, 528, 535, 547, 564; PHYS 331

o Statistics: BIOS 511; ENEC 562, 563; GEOL 520, 525; STOR 435, 455, 556

o Basic Science: BIOL 201, 271; CHEM 261; PHYS 114 or 115; PHYS 118 or 119

o Modeling: COMP 401 and one of COMP 410, COMP 411, ENEC/GEOL/MASC 415

o GIS and Remote Sensing: ANTH 419; GEOG 370, 391, 477, 491, 577, 591, 592; GEOL/MASC 483

‡ Concentration area (four courses in one area) listed on reverse of worksheet

Following courses are listed under multiple requirements in the major but can only be used to fulfill one requirement per course: ENEC 395, ENEC 396, ENEC 693H, ENEC 694H, ENVR 403/ENEC 403, PHYS 114, 115, 118, 119, and 331.

Remaining courses after this term:	Hours to be deducted:	Hours Tally:	Notes:
____ Foundations _____	Repeated courses _____	Hours to date: _____	
____ Approaches _____	HSFL _____	Hours in progress _____	
____ Connections _____	Online courses > 24 _____	Pending Study Abroad* _____	
____ Supplemental _____	Other _____	Subtotal _____	
____ (hrs C _____) _____	Professional School > 30 _____	Hours deducted _____	
____ (hrs C _____) _____	Hours in subject (BA) > 45 _____	Hours after this term _____	
____ (hrs C _____) _____	Total _____	Hours remaining to grad _____	
Requirements subtotal _____		Semesters left _____	
<b>Total</b> _____			

\* Pending study abroad hours may differ from hours earned.

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

## ENVIRONMENTAL SCIENCE CONCENTRATIONS

***Energy Management*** (ENEC 307, 395 or 396, 482, 693H or 694H; ENVR/ENEC 403; ENEC/PLAN 547; GEOL 215; PHYS 131, 581, 582)

***Environmental Processes*** (ENEC 202, 222, 256, 395 or 396, 489; 693H or 694H; ENVR/ENEC 403; MASC 432, 433, 450, 460; GEOL 435, 436, 508, 520, 525; GEOG 410, 412, 414, 416, 441)

***Smart Cities*** (ENEC 350, 351, 325, 380, 395 or 396, 480, 485, 492, 693H or 694H; ENEC/PLAN 420; PLAN/ENEC 547, 641; PLAN 636, 637, 638, 651)

May 11, 2017