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| ENVIRONMENTAL SCIENCE - BS, Quantitative Energy Systems Track (120 hours) Effective 2017-2020 | | |
| NAME | PID | Optional 2 nd Major or Minor |

FOUNDATIONS

| English Comp. and Rhetoric | Foreign Language* | | Quant. Reas. (QR) | Lifetime Fitness (LFIT) |
|----------------------------|-------------------|----|-------------------|-------------------------|
| | 1. | 3. | MATH 231 | (1 hr.) |
| | 2. | 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): |
| BIOL 101 BIOL 101L | Soc. Sci./Hist. Analysis (SS/HS): *** | Literary Arts (LA): |
| | Soc. Sci./Hist. Analysis (SS/HS): ENEC 201 | 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) |
|--------------------------|---|-------------------------------|---------------------------|
| BIOL 101L | MATH 232 | ENEC 698 | ENEC 201 |
| US Diversity (US) | North Atlantic World (NA) | World before 1750 (WB) | Beyond the NA (BN) |

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, 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 co-requisite, MATH 383.(#) Two courses each from two of the following quantitative skills (4 courses total):

- o Informatics: INLS 161, 201, 382, 523; 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 118; PHYS 115 or 119

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

o GIS and Remote Sensing: ANTH 419; ENEC 479; GEOG 370, 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 | |
| Total | | | |

*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, 407, 432, 482, 693H or 694H; ENVR/ENEC 403; GEOL 315 (previously offered as GEOL 215); PHYS 131, 581, 582; PLAN/ENEC 547

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

July 30, 2019