

**GEORGE MASON UNIVERSITY**  
**COLLEGE OF SCIENCE**  
**B.S. DEGREE IN ENVIRONMENTAL SCIENCE (3033 David King Hall, 703-993-1211)**  
[esp.gmu.edu](http://esp.gmu.edu)  
**2014-2015 CATALOG**

|   | <u>Department(s) &amp; Course #(s)</u> | <u>Completed/<br/>Grade(s)</u> | <u>Needed</u> |
|---|--|--------------------------------|---------------|
| <b>MASON CORE REQUIREMENTS (27)</b>                                       |  |                                |               |
| a. Written Communication: ENGH 101 (100), ENGH 302 (C or better) (3,3)    |  | _____                          | _____         |
| b. Oral Communication: COMM 100 or 101 (please circle choice) (3)         |  | _____                          | _____         |
| c. Quantitative Reasoning (satisfied by completion of major requirements) |  | _____                          | _____         |
| d. Literature (3)   | _____                                  | _____                          | _____         |
| e. Arts (3)   | _____                                  | _____                          | _____         |
| f. Western Civilization (3)   | _____                                  | _____                          | _____         |
| g. Social & Behavioral Science (3)  | _____                                  | _____                          | _____         |
| h. Natural Science (satisfied by completion of major requirements)        |  | _____                          | _____         |
| i. Global Understanding (3)   | _____                                  | _____                          | _____         |
| j. Information Technology (satisfied by completion of major requirements) |  | _____                          | _____         |
| k. Synthesis (satisfied by completion of major requirements)              |  | _____                          | _____         |

Go to: <http://provost.gmu.edu/gened/general-education-requirements/> to link to information on Mason Core requirements.

**CORE SCIENCE and MATHEMATICS (56 hours required)**

|  |          |       |
|--|----------|-------|
| a. EVPP 110, EVPP111 (4,4) or BIOL 213 (4), PHYS 101 (3)   | a. _____ | _____ |
| b. EVPP 305, EVPP306 (3,1)   | b. _____ | _____ |
| c. BIOL 308 (writing intensive course), BIOL 214 (5,4)   | c. _____ | _____ |
| d. EVPP 361, EVPP 377 (4,4)  | d. _____ | _____ |
| e. EVPP 430 (3)  | e. _____ | _____ |
| g. One of the following: EVPP 336, EVPP 337*, EVPP 338, EVPP 362, EVPP 335, EVPP 480, GEOL 420, GGS 303, GGS 304, CONS 490**, PHIL 343 (circle choice) (3) | g. _____ | _____ |
| g. CHEM 211, CHEM 212 (4, 4)   | g. _____ | _____ |
| h. Two of the following (circle choices): MATH 111 (3), MATH 113 (4), MATH 114 (4)   | h. _____ | _____ |
| g. GEOL 102, CDS 130 (4, 3)  | g. _____ | _____ |

\*Students in the Human and Ecosystem Response to Climate Change concentration must take EVPP 337.

\*\* CONS 490 is only for students attending the Mason-Smithsonian semester

**CONCENTRATION Select one of the following: (24)**

- Aquatic Ecology (AQEC)**  
 Required: EVPP 350 (4), EVPP 421 (3), BIOL 309 (3), BIOL 449 (3), and at least eleven credits from the following (circle choices): EVPP 363 (4), EVPP 380 (4), EVPP 419 (3), EVPP 420 (1), EVPP 536 (4), BIOL 440 (1-4), GEOL 364 (3), GEOL 458 (3), CLIM 412 (3), NCLC 318 (4), additional courses approved by the program coordinator.
- Conservation (CNSV) 24 credits from the following: (circle choices)**  
 BIOL 310 (5), EVPP 318 (3), EVPP 378 (4), EVPP 419 (3), EVPP 420 (1), EVPP 421 (3), CONS 320 (3), CONS 401 (3), CONS 402 (4), CONS 403 (3), CONS 404 (4), CONS 410 (3), CONS 411 (3), CONS 420 (3), CONS 490 (3), CONS 491 (3), CONS 497 (1-3), CONS 498 (1-3), CONS 499 (1-3), GGS 303 (3), NCLC 311 (6), PRLS 300 (3), PRLS 402 (3), BIOL 440 (1-4), additional courses approved by the program coordinator.
- Ecological Science (ESCI) 24 credits from the following: (circle choices)**  
 EVPP 350 (4), EVPP 355 (4), EVPP 378 (4), BIOL 309 (3), BIOL 310 (5), BIOL 345 (4), BIOL 440 (1-4), BIOL 449 (3), BIOL 459 (3), GEOL 305 (3), GEOL 306 (3), additional courses approved by the program coordinator.
- Environmental Health (EVHL)**  
 Required: EVPP 445 (3), GCH 205 (34), GCH 360 (3), GGS 302 (3), GGS 319 (3), and nine credits from the following (circle Choices): EVPP 451 (3), EVPP 515 (3), BIOL 402 (3), BIOL 404 (3), BIOL 465 (4), GCH 460 (3), GCH 560 (3), GGS 304 (3), GGS 455 (3), GGS 540 (3), CEIE 555 (3), CHEM 505 (1-3), additional courses approved by the program coordinator.
- Human and Ecosystems Response to Climate Change (HERC)**  
 Required: CLIM 101 (3), GGS 121 (4), GGS 302 (3), EVPP 336 (3), and GGS 309 or GGS 314 (3), and eight credits from chosen from the following (circle choices): BIOL 309 (3), CLIM 111 (3), CLIM 112 (1), EVPP 355 (4), EVPP 378 (4), EVPP 436 (3), GGS 304 (3), GGS 312 (3), GGS 321 (3), GGS 322 (3), GGS 353 (3), GGS 354 (3), additional courses approved by the program coordinator.

**GENERAL ELECTIVES (15)**

|       |       |       |       |
|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

**MINIMUM HOURS TO GRADUATE: 120**

**UPPER DIVISION HOURS (minimum 45)**

This planning form is intended to be used in consultation with your academic advisor and reflects the requirements for the 2014-2015 Catalog; the University Catalog is the official reference for program requirements.

# COURSE LISTS (ENVIRONMENTAL SCIENCE)

## Mason Core Requirements

Written Communication: ENGH 101 (or 100) and ENGH 302

Oral Communication: COMM 100 or COMM 101

Quantitative Reasoning: MATH 111, 113. The Math Placement Test is required to take a MATH course (except 106). See this web site for more information: [http://math.gmu.edu/placement\\_test.htm](http://math.gmu.edu/placement_test.htm)

Literature: ARAB 325; CHIN 310, 311, 325, 328; CLAS 250, 260, 340, 350, 360, 380; ENGH 201, 202, 203, 204; FREN 325, 329; FRLN 330; GERM 325; ITAL 320, 325; JAPA 340; PHIL 253; RELI 235; RUSS 325, 326, 327; SPAN 325

Arts: ARTH 101, 102, 103, 200, 201, 203, 204, 321, 322, 324, 333, 334, 335, 340, 341, 342, 344, 345, 360, 362, 370, 372, 373, 376; AVT 103, 104, 215, 222, 232, 243, 252, 253, 262, 272; DANC 101, 119, 125, 131, 145, 161, 225, 231, 245, 301, 354, 445, 390, 391; ENGH 370, 372, 396; FAVS 225; GAME 101; MUSI 100, 101, 102, 107, 280, 301, 302, 380, 381, 382, 383, 384, 385, 387, 389, 485; PHIL 156; THR 101, 150, 151, 210, 230, 395, 411, 412.

Western Civilization: HIST 100 or 125; transfer students may substitute: the following courses for HIST 100: HIST 101, 102, 301, 302, 304, 305, 306, 308, 309, 312, 314, 322, 388, 435, 436, 480; and the following courses for HIST 125: HIST 202, 387.

Social and Behavioral Sciences: AFAM 200; ANTH 114, 120, 135, 396; CONF 101; CONS 410; CRIM 100; ECON 100, 103, 104, 105, 110, 111 (110 and 111 must be taken together); EDUC 372; GGS 103; GOVT 101, 103, 367; HEAL 230; HIST 121, 122; LING 306; PSYC 100, 211, 231; SOCI 101, 352, 355; SOM 100; TOUR 311; WMST 200

Natural Sciences: CHEM 211 & 212

Global Understanding: ANTH 302, 304, 306, 307, 308, 309, 311, 312, 313, 316, 331, 332, 385; ARTH 319, 320, 380, 382, 383, 384, 385, 386; CEIE 100; COMM 305, 456; CRIM 405; DANC 118, 318, 418; ECON 360, 361, 362, 380, 390; ENGH 362, 366; GCH 205; GGS 101; GLOA 101; GOVT 132, 133; HIST 130, 251, 252, 261, 262, 271, 272, 281, 282, 328, 329, 356, 358, 360, 364, 365, 387, 460, 462; JAPA 310; MSOM 305; MUSI 103, 431; PHIL 243; PSYC 379; RELI 100, 211, 212, 313, 315, 341, 374; RUSS 354; SOCI 120, 320, 332; SPAN 322; SYST 100; THR 359, TOUR 210; WMST 100

Information Technology: CDS 130

Synthesis: ANTH 400; ARTH 394; AVT 385, 497, 498; BENG 492, 493; BINF 354; BIOL 301; BIS 490; CEIE 490; COMM 326, 362, 454; CONF 490; **CONS 490**; CRIM 495; CS 306; DANC 490; ECE 447, 492, 493; ECON 309; EDCI 490; ENGH 305; **EVPP 335, 480**; FAVS 352; FRLN 385; GAME 490; GCH 465; **GEOL 420**; **GGS 303, 304**; GOVT 490, 491; HAP 465; HIST 300, 499; IT 492; LAS 499; MATH 400; MUSI 490; NCLC 308; NURS 465; PHIL 309, 343, 377, 378, 379; PHYS 346; PROV 342; PSYC 405, 406, 427; RELI 490; RUSS 353; SOCI 377, 483; SOCW 323, SOM 498; SPAN 388; SYST 495; THR 440, 496; UNIV 442

