

**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)

**2018 - 2019 CATALOG**

	<u>Department(s) &amp; Course #(s)</u>	<u>Completed/ 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 ( <b>satisfied by completion of major requirements</b> )			
d. Literature (3)	_____	_____	_____
e. Arts (3)	_____	_____	_____
f. Western Civilization (3)	_____	_____	_____
g. Social & Behavioral Science (3)	_____	_____	_____
h. Natural Science ( <b>satisfied by completion of major requirements</b> )			
i. Global Understanding (3)	_____	_____	_____
j. Information Technology ( <b>satisfied by completion of major requirements</b> )			
k. Synthesis ( <b>satisfied by completion of major requirements</b> )			

Go to: <http://catalog.mu.edu/mason-core/> to link to information on Mason Core requirements.

**CORE SCIENCE and MATHEMATICS (60-62 total credit hours required)**

Environmental Science Course (38-39 credit hours required)

a. EVPP 210, EVPP 301 (4,4)	a. _____	_____
b. EVPP 302, EVPP 337 (4,3)	b. _____	_____
c. EVPP 305, EVPP 306 (3,1)	c. _____	_____
d. EVPP 361, EVPP 377 (3,3)	d. _____	_____
e. EVPP 430, BIOL 214 (3,4)	e. _____	_____
f. One of the following: EVPP 336, EVPP 338, EVPP 362, EVPP 475 (circle choice) (3)	f. _____	_____
g. One of the following: EVPP 378, EVPP 401, EVPP 480, *CONS 490 (circle choice) (3-4)	g. _____	_____
Additional Science and Math Courses (22-23)		
h. CHEM 211/213, CHEM 212/214 (3/1,3/1)	h. _____	_____
i. Two of the following (circle choices): MATH 111 (3), MATH 113 (4), MATH 114 (4)	i. _____	_____
j. GEOL 102, CDS 130 (4,3)	j. _____	_____

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

**CONCENTRATION Select one of the following: (21 – 26 credit hours required)**

- a. **Conservation (CNSV)** At least 21 credits from the following: (circle choices) EVPP 318 (3), 378 (4), 395 (1-3), 396 (1-4), 419 (3), 420 (1), 421 (3), 427 (3), 440 (0-4), 475 (3), 490 (0-4), 494 (1-3); BIOL 310 and 330 (3, 2), 435 (0-4); CONS 320 (3), 401 (3), 402 (4), 403 (3), 404 (4), 410 (3), 411 (3), 490 (3), 491 (3), 497 (1-3), 498 (1-3), 499 (1-3); GGS 303 (3), 307 (3), INTS 311 (6), PRLS 300 (3), 402 (3), additional courses approved by the program coordinator.
- b. **Ecological Science (ESCI)** 21 credits from the following: (circle choices) EVPP 309 (3), 350 (4), 355 (4), 378 (4), 395 (1-3), 396 (1-4), 408 (3), 427 (3), 440 (0-4), 449 (3), 490 (0-4), 494 (1-3); BIOL 310 and 330 (3, 2), 345 (4), 435 (4), 459 (3); GEOL 305 (3), 306 (3), 307 (3); additional courses approved by the program Coordinator.
- c. **Environmental Health (EVHL)** Required: EVPP 427 (3), 445 (3) and fifteen credits from the following (circle choices): EVPP 395 (1-3), 396 (1-4), 409 (3), 440 (0-4), 490 (0-4), 494 (1-3), 515 (3); BIOL 305 and 306 (3,1), 402 (3), 404 (3), 465 (4); GCH 205 (3), 360 (3), 560 (3); GGS 302 (3), 304 (3), 307 (3), 319 (3), 322 (3); additional courses approved by the program coordinator.
- d. **Human and Ecosystems Response to Climate Change (HERC)** Required: EVPP 336 (3) and eighteen credits chosen from the following (circle choices): CLIM 101 (3), 111 (3), 112 (1), 312 (3), 314 (3), 319 (3), 412 (3), 438 (3); EVPP 309 (3), 355 (4), 378 (4), 395 (1-3), 396 (1-4), 427 (3), 432 (3), 436 (3), 440 (0-4), 475 (3), 490 (0-4), 494 (1-3); GEOL 309 (3); GGS 121 (4), 302 (3), 304 (3), 307 (3), 309 (3), 312 (3), 314 (3), 319 (3), 321 (3), 322 (3), 354 (3), 456 (3); additional courses approved by the program coordinator.
- e. **Marine, Estuarine, and Freshwater Ecology (MEFC)** Required: EVPP 309 (3), 350 (4), 421 (3), 449 (3), and at least eight credits from the following (circle choices): EVPP 318 (3), 363 (4), 380 (4), 395 (1-3), 396 (1-4), 419 (3), 420 (1), 427 (3), 440 (0-4), 490 (0-4), 494 (1-3); BIOL 331(4), 480 (3); GEOL 364 (3), 458 (3); GGS 307 (3); CLIM 412 (3), INTS 318 (4), additional courses approved by the program coordinator.
- f. **Wildlife (WILD)** Required: EVPP 318 (3), BIOL 460 (3). Choose one of the following: EVPP 395 (1-3), 396 (1-4), 419 (3), 494 (1-3); BIOL 437 (4), 438 (4), 439 (3). One Zoology course: EVPP 395 (1-3), 396 (1-4), 427 (3), 494 (1-3); BIOL 311 (4), 331 (4), 332 (4). One Botany Course: EVPP 395 (1-3), 396 (1-4), 494 (1-3); **BIOL 140** (3), 304 (4), 344 (4), 345 (4); INTS 402 (6)

**GENERAL ELECTIVES:** Maximum 2 credits of PHED, PRLS, and RECR coursework toward a COS degree. Only MLSC 400 and MLSC 402 may be used for credit towards a COS degree. (List courses) **(10-12)**

**MINIMUM 120 HOURS (including Minimum 45 UPPER DIVISION HOURS) to GRADUATE**

This planning form is intended to be used in consultation with your academic advisor and reflects the requirements for the 2018-2019 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 MATH 113. See this web site for more information: [http://math.gmu.edu/placement\\_test.php](http://math.gmu.edu/placement_test.php)

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; KORE 311; PHIL 253; RELI 235, 333; RUSS 325, 326, 327; SPAN 325

Arts: ARTH 101, 102, 103, 200, 201, 203, 204, 206, 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, 385; DANC 101, 119, 125, 131, 145, 161, 225, 231, 245, 301, 325, 331, 345, 425, 445, 390, 391; ENGH 370, 371, 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, 436, 480; and the following courses for HIST 125: HIST 202, 387.

Social and Behavioral Sciences: AFAM 200; ANTH 114, 120, 135, 363, 372, 396; BUS 100; CONF 101; CONS 410; CRIM 100; ECON 100, 103, 104, 105, 367; EDUC 203, 372; GCH 325; GGS 103; GOVT 101, 103, 367; HEAL 230; HIST 121, 122; LING 306; PSYC 100, 211, 231; SOCI 101, 352, 355; TOUR 311; WMST 200

Natural Sciences: CHEM 211/213 & 212/214

Global Understanding: ANTH 302, 306, 307, 308, 309, 312, 313, 316, 331, 332, 382; ARTH 319, 320, 382, 383, 384, 385, 386; BUS 200; CEIE 100; COMM 305, 456; CRIM 405; DANC 118, 318, 418; ECON 360, 361, 362, 380, 390; ENGH 362, 366; FAVS 300; FRLN 331; GCH 205; GGS 101; GLOA 101; GOVT 132, 133; HIST 251, 252, 261, 262, 271, 272, 281, 282, 328, 329, 356, 357, 358, 360, 364, 365, 387, 460, 462; JAPA 310; MBUS 305; MUSI 103, 431; PHIL 243; PROV 105; PSYC 379; RELI 100, 211, 212, 313, 315, 320, 322, 341, 374; RUSS 354; SOCI 120, 320, 332; SPAN 322, 466; SYST 202; THR 359, TOUR 210; WMST 100

Information Technology: CDS 130

Synthesis/Capstone: ANTH 400; ARAB 351, 440; ARTH 394; ASTR 402; ATEP 441; AVT 385, 497, 498; BAS 491; BENG 492, 493; BINF 354; BIOL 301, 379; BIS 490; BUS 498; CEIE 490; CHIN 318, 355, 475; COMM 326, 362, 454; CONF 490; **CONS 490**, 491; CRIM 495; CS 306; CYSE 493; DANC 490; ECE 492, 493; ECON 309; EDCI 490; ENGH 401, 417, 458, 470, 484, 486, 495; **EVPP 378, 480**; FAVS 352, 496, 497, 499; FRLN 385; GAME 490; GCH 465; **GEOL 420**; GLOA 400; GGS 303, 304; GOVT 490, 491; HAP 465, 489, 498; HDFS 400; HIST 300, 499; INTS 308; IT 492, 493; KINE 490; LAS 499; MATH 400; ME 444; MUSI 324, 424, 490, 491, 495; NURS 465; PHED 415; PHIL 309, 343, 377, 378, 379, 421, 422; PHYS 346, 407; PRLS 490; PROV 342; PSYC 405, 406, 427; RELI 490; RHBS 499; RUSS 353; SOCI 377, 483, 485; SOCW 375, 472; SPAN 388; SPMT 490; STAT 490; SYST 495; THR 440, 496; TOUR 490



B.S. Environmental Science

2018 - 2019

FALL YEAR 1	CREDITS	SPRING YEAR 1	CREDITS	NOTES
EVPP 210	4	EVPP 301	4	*CDS 130 can be taken in a later semester; if this is done, substitute another Mason Core course in the first semester.
CHEM 211	3	CHEM 212	3	
CHEM 212	1	CHEM 214	1	
CDS 130	3	BIOL 214	4	
Mason Core	3	Mason Core	3	
UNIV 100	1			
Total:	15 credits	Total:	15 credits	

FALL YEAR 2	CREDITS	SPRING YEAR 2	CREDITS	NOTES
EVPP 302	4	EVPP 337	3	*Note that two Math courses Required; MATH 111 is not a pre-Requisite for MATH 113.
EVPP 305	3	MATH 113 OR	4	
EVPP 306	1	MATH 114	4	
MATH 111 OR	3	GEOL 102	4	
MATH 113	4	Mason Core	3	
Mason Core	3			
Total:	14 or 15 credits	Total:	14 credits	

FALL YEAR 3	CREDITS	SPRING YEAR 3	CREDITS	NOTES
EVPP 361	3	Conc. Req.	4	*Conc. Req. = Concentration Requirement. *Synthesis = EVPP 378, EVPP 480 or CONS 490.
EVPP 336 OR 338		Synthesis	3 or 4	
OR 362 or 475	3	General Elective	3	
EVPP 430	3	General Elective	3	
EVPP 377	3	Mason Core	3	
Mason Core	3			
Total:	15 credits	Total:	16 or 17 credits	

FALL YEAR 4	CREDITS	SPRING YEAR 4	CREDITS	NOTES
Conc. Req.	4	Conc. Req.	4	*Summer Internship (1-3 credits) between Year 3 and Year 4. *13 credits may be sufficient last semester.
Conc. Req.	3	Conc. Req.	3	
General Elective	3	Conc. Req.	3	
ENGH 302	3	General Elective	3	
Mason Core	3	General Elective	3	
Total:	16 credits	Total:	16 credits	
*Students must earn	120 credits; 45 credits	must be upper-level	(courses 300+).	