

**GEORGE MASON UNIVERSITY
COLLEGE OF SCIENCE**

B.S. DEGREE IN GLOBAL AND ENVIRONMENTAL CHANGE (Research I, 331, 703-993-1213)

<http://esgs.gmu.edu/>
2012-2013 CATALOG

	<u>Department(s) & Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
GENERAL EDUCATION REQUIREMENTS (*18)			
a. Written Communication: ENGH 101 (100), ENGH 302 (C or better) (3,3)		___ ___	___ ___
b. Oral Communication: COMM 100 or 101 (se 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 (satisfied by completion of major requirements)			
h. Natural Science (satisfied by completion of major requirements)			
i. Global Understanding (satisfied by completion of major requirements)			
j. Information Technology (satisfied by completion of major requirements)			
k. Synthesis (satisfied by completion of major requirements)			

Go to: <http://chss.gmu.edu/general-education/all-requirements> to link to information on general education requirements.

MAJOR REQUIREMENTS (73-77 hours required)

Global Change Core (20-21)

a. GGS 121, GGS 122 (4,4) or EVPP 110, EVPP 111 (4,4) (circle choice)	a. ___ ___	___ ___
b. GGS 304 (writing intensive course) (3)	b. ___ ___	___ ___
c. GGS 302 (3) or GEOL 305 (3) (circle choice)	c. ___ ___	___ ___
d. GGS 300 (3) or BIOL 312 (4) (circle choice)	d. ___ ___	___ ___
e. GGS 353 (3)	e. ___ ___	___ ___

Geosphere and Atmosphere (13-15)

a. GEOL 101 (4) or PHYS 243/244 (3/1) (circle choice)	a. ___ ___	___ ___
b. Three courses chosen from: GGS 309 (3), 312 (3), 314 (3), 319 (3), 399 (3); GEOL 306 (3), 309 (3), 317 (4); EVPP 490 (0-4) (circle choices)	b. ___ ___	___ ___

Ecosphere and Sociosphere (12-13)

a. GLOA 101 (3), GGS 101 (3), or CEIE 100 (3) (circle choice)	a. ___ ___	___ ___
b. GGS 103 (3) or ANTH 135 (3) (circle choice)	b. ___ ___	___ ___
c. GGS 321 (3) or EVPP 377 (3) (circle choice)	c. ___ ___	___ ___
d. One course from the following: BIOL 318 (3), 345 (4), 499 (3); GGS 303 (3), 307 (3), 322 (3); EVPP 336 (3), 337 (3), 350 (3) (circle choice)	d. ___ ___	___ ___

Applications and Techniques of Detecting Global Change (6)

a. Choose two courses from: GGS 311 (3), 313 (3), 354 (3), 410 (3), 412 (3), 416 (3), 455 (3), 463 (3), 495 (3); GEOL 303 (3) (circle choices)	a. ___ ___	___ ___
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Supporting Sciences and Mathematics (22)

a. Additional Natural Lab Sciences (8)		
1. CHEM 211, CHEM 212 (4,4); or PHYS 243/244 (3/1), PHYS 254/246 (3/1); or ASTR 111/112 (3/1), ASTR 113/114 (3/1) or GEOL 101, GEOL 102 (4,4); or BIOL 103, BIOL104 (4,4) (circle choices)	1. ___ ___	___ ___
b. Quantitative Sequence (11)		
1. Math 113, MATH 114 (4,4)	1. ___ ___	___ ___
2. STAT 250 (3) (circle choice)	2. ___ ___	___ ___
c. Information Technology (3)		
1. IT 103 (3)	1. ___ ___	___ ___

GENERAL ELECTIVES

_____	___ ___	___ ___
_____	___ ___	___ ___
_____	___ ___	___ ___
_____	___ ___	___ ___

MINIMUM HOURS TO GRADUATE: 120

UPPER DIVISION HOURS (minimum 45):

COURSE LISTS (GLOBAL AND ENVIRONMENTAL CHANGE)

University General Education Requirements

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

Oral Communication: COMM 100 or COMM 101

Quantitative Reasoning: MATH 113, STAT 250. The Math Placement Test is required to take MATH 113. See this web site for more information: See this web site for more information: http://cos.gmu.edu/academics/undergraduate/math_placement_testing)

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 325; 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, 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, 390, 391; ENGH 370, 372, 396; FAVS 225; GAME 101; MUSI 100, 101, 102, 107, 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 or 125: HIST 101, 102, 202, 301, 302, 304, 305, 306, 308, 309, 314, 322, 387, 388, 435, 436, 480.

Social and Behavioral Sciences: **ANTH 135**, or **GGG 103**

Natural Sciences: ASTR 111/112, 113/114; BIOL 103, 104; CHEM 211, 212, EVPP 110,111; GEOL 101,102; PHYS 243/244, 245/246

Global Understanding: **CEIE 100** or **GGG 101** or **GLOA 101**

Information Technology: **IT 103**

Synthesis: **GGG 304**