

**GEORGE MASON UNIVERSITY
VOLGENAU SCHOOL OF ENGINEERING
B.S. DEGREE IN CIVIL AND INFRASTRUCTURE ENGINEERING
(1300 The Engineering Building, 703-993-1675)
<http://civil.gmu.edu/>
2012-2013 CATALOG**

<u>Department(s) & Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
<u>GENERAL EDUCATION REQUIREMENTS (21)</u>		
a. Written Communication: ENGH 101 (100), ENGH 302 (C or better) (3,3)	_____	_____
b. Oral Communication: COMM 100 (3)	_____	_____
c. Quantitative Reasoning (satisfied by completion of mathematics and basic sciences requirements)	_____	_____
d. Literature (3)	_____	_____
e. Arts (3)*	_____	_____
f. Western Civilization (HIST 100, 125, or acceptable transfer course)(3)*	_____	_____
g. ECON 103 (3)	_____	_____
h. Natural Science (satisfied by completion of mathematics and basic sciences requirements)	_____	_____
i. Global Understanding (3)*	_____	_____
j. Information Technology (satisfied by completion of major requirements)	_____	_____
k. Synthesis (satisfied by completion of major requirements)	_____	_____

*Student must satisfy General Education requirements in two of these three areas: Arts, Global Understanding, and Western Civilization. The two additional General Education areas to be satisfied must be approved by the CEIE faculty advisor with the goal of best meeting the general education needs of the student.

MATHEMATICS AND BASIC SCIENCES (33 hours required)

a. MATH 113, 114 (4,4)	a. _____	_____
b. MATH 213, 214 (3,3)	b. _____	_____
c. CHEM 251 or CHEM 211 (4)	c. _____	_____
d. PHYS 160, 161 (3,1)	d. _____	_____
e. PHYS 260, 261, 266 (3,1,1)	e. _____	_____
f. STAT 344, BIOL 377 (3, 3)	f. _____	_____

ENGINEERING SCIENCES (66 hours required)

a. ENGR 107, CEIE 117 (2,3)	a. _____	_____
b. CEIE 203, CEIE 210 (3,3)	b. _____	_____
c. CEIE 240, CEIE 301 (writing intensive course) (3,3)	c. _____	_____
d. CEIE 310, CEIE 311 (3,3)	d. _____	_____
e. CEIE 331, CEIE 340 (3,3)	e. _____	_____
f. CEIE 355, CEIE 360 (3,3)	f. _____	_____
g. CEIE 370, CEIE 400 (3,3)	g. _____	_____
h. CEIE 409, CEIE 490 (3.3)	h. _____	_____
j. CEIE technical electives (list course numbers) (21)		
1. <u>CEIE</u> _____	_____	_____
2. <u>CEIE</u> _____	_____	_____
3. <u>CEIE</u> _____	_____	_____
4. <u>CEIE</u> _____	_____	_____
5. <u>CEIE</u> _____	_____	_____
6. <u>CEIE</u> _____	_____	_____
7. <u>CEIE</u> _____	_____	_____

A grade of C or better is required in all MATH, science, and Volgenau School of Engineering courses.

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 2012-2013 Catalog; the University Catalog is the official reference for program requirements.

COURSE LISTS (CIVIL AND INFRASTRUCTURE ENGINEERING)

University General Education Requirements

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

Oral Communication: COMM 100

Quantitative Reasoning: MATH 113. The Math Placement Test is required to take a MATH course. 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: ECON 103

Natural Sciences: PHYS 160/161 & 260/261

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: CEIE117

Synthesis: CEIE 490