

**GEORGE MASON UNIVERSITY  
VOLGENAU SCHOOL OF ENGINEERING  
B.S. DEGREE IN CIVIL AND INFRASTRUCTURE ENGINEERING  
(1300 Nguyen Engineering Building, 703-993-1675)  
<http://civil.gmu.edu/>  
2014-2015 CATALOG**

	<u>Department(s) &amp; Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
<b><u>MASON CORE REQUIREMENTS (21)</u></b>			
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 Mason Core requirements in two of these three areas: Arts, Global Understanding, and Western Civilization. The two additional Mason Core areas to be satisfied must be approved by the CEIE faculty advisor with the goal of best meeting the Mason Core 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, CDS 130 (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 409 (3,1)		g. ___ ___	___ ___
h. CEIE 490 (3)		h. ___ ___	___ ___
j. CEIE technical electives (list course numbers) (24)			
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> _____	8. <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 2014-2015 Catalog; the University Catalog is the official reference for program requirements.

# COURSE LISTS (CIVIL AND INFRASTRUCTURE ENGINEERING)

## Mason Core 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://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: 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 202; THR 359, TOUR 210; WMST 100

Information Technology: CDS130

Synthesis: CEIE 490

