

# PLAN OF STUDY FOR BS IN CIVIL & INFRASTRUCTURE ENGINEERING

For Students Entering Fall 2006 or later

Name: \_\_\_\_\_

G#: \_\_\_\_\_

Email: \_\_\_\_\_

Catalog Year: \_\_\_\_\_

Date: \_\_\_\_\_

Created By: \_\_\_\_\_

			<b>Yr/Sem * (see note below)</b>
<b>I.</b>	<b>GENERAL EDUCATION REQUIREMENTS (24 units)</b>		
	A. Written Communication	ENGL 101, 302 (3, 3)	6    _____
	B. Oral Communications	COMM 100	3    _____
	C. Literature	(see approved courses from catalog)	3    _____
	D. Fine Arts requirement	(see approved courses from catalog)	3    _____
	E. Western Civilization	HIST 100	3    _____
	F. Social and Behavioral Science	ECON 103	3    _____
	G. Global Understanding	(see approved courses)	3    _____
<b>II.</b>	<b>BASIC SCIENCES, MATHEMATICS &amp; COMPUTER PROGRAMMING (34 units)</b>		
	A. Physics	PHYS 160, 161, 260, 261, 266 (3,1, 3, 1, 1)	9    _____
	B. Calculus	MATH 113, 114, 213 (4, 4, 3)	11    _____
	C. Differential Equations	MATH 214	3    _____
	D. Probability	STAT 344	3    _____
	E. Computing	CS 112	4    _____
	F. Chemistry	CHEM 251	4    _____
<b>III.</b>	<b>ENGINEERING SCIENCES (11 units)</b>		
	A. Engineering Fundamentals	ENGR 107	2    _____
	B. Engineering Computer Graphics	ENGR 183	3    _____
	C. Engineering Mechanics	ENGR 210	3    _____
	D. Mechanics of Materials	ENGR 310	3    _____
<b>IV.</b>	<b>CIVIL AND INFRASTRUCTURE ENGINEERING MAJOR (39 units)</b>		
	A. Hydraulics	CEIE 230	3    _____
	B. Engineering Computation and Design	CEIE 290	3    _____
	C. Engineering & Economic Models	CEIE 301	3    _____
	D. Soil Mechanics	CEIE 305	3    _____
	E. Structural Analysis and Design	CEIE 311, 367 (3, 3)	6    _____
	F. Water Resources Engineering	CEIE 340	3    _____
	G. Transportation Systems	CEIE 360	3    _____
	H. Urban Systems Planning & Mgmt II	CEIE 400	3    _____
	I. Water Supply and Distribution	CEIE 440	3    _____
	J. Intro to Environmental Engineering	CEIE 455	3    _____
	K. Construction Systems	CEIE 463	3    _____
	L. Senior Design Project	CEIE 490	3    _____
<b>V.</b>	<b>TECHNICAL ELECTIVES (12 units)</b>		
	CEIE Environmental Technical Elective _____		3    _____
	CEIE Transportation Technical Elective _____		3    _____
	CEIE Technical Elective _____		3    _____
	CEIE Technical Elective _____		3    _____

- **Credit Hours:** Semester hours credits must total at least 120 hours, at least 45 of which must be at the 300/400 level.
- **Residency:** You must complete at least 30 hours at George Mason University in order to satisfy the residency requirements.
- **Environmental Technical Elective** – Choose one from: CEIE 450, 452 or 456. Some 499 courses may apply depending on the topic.
- **Transportation Technical Elective** – Choose one from: CEIE 460, 461 or 462. CEIE 660 can be taken if accepted to the Accelerated BS/MS Program. Some CEIE 690 courses may apply depending on topic and if accepted to Acc. BS/MS

I acknowledge that this study plan takes into consideration all transfer and advanced placement credits as well as courses taken, or to be taken at George Mason University (including consortia courses), or as approved by George Mason University as "courses to be taken elsewhere."

\_\_\_\_\_  
Student's signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Advisor's Signature

\_\_\_\_\_  
Date:

\*Please indicate the year and semester as follows: Example: 03B – Spring 2003, 03D – Summer 2003, 03F – Fall 2003