

**GEORGE MASON UNIVERSITY
COLLEGE OF SCIENCE
B.S. DEGREE IN MATHEMATICS (203B Science and Tech I, 703-993-1460)**

<http://math.gmu.edu/undergraduate/index.html>

2009-2010 CATALOG

<u>Department(s) & Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
GENERAL EDUCATION REQUIREMENTS (30)		
a. Composition: ENGL 101 (100), 302 (C or better) (3,3)	_____	_____
b. Communication 100 or 101 (please circle choice) (3)	_____	_____
c. Literature (3) d. Fine Arts (3)	_____	_____
e. Western Civ. (3) f. Social/Behavioral Science (3)	_____	_____
g. Global Understanding (3)	_____	_____
h. Information Technology (3) (may be satisfied by completion of CS 112 plus the ethics component)	_____	_____
i. Synthesis (3)	_____	_____
(Quantitative Reasoning and Natural Science are satisfied by completion of major requirements.)		

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

MAJOR REQUIREMENTS (47-56 hours required)

a. MATH 113, 114 (4,4)	a. _____	_____
b. MATH 203; MATH 214 or 216 (3,3)	b. _____	_____
c. MATH 213 or 215 (circle choice) (3)	c. _____	_____
d. MATH 290, 322 (3,3)	d. _____	_____
e. Twenty-four hours of additional mathematics (24)		
1. MATH 125, 315 (3,3)	1. _____	_____
2. MATH 316; MATH 321 or 431 (circle choice) (3,3)	2. _____	_____
3. Twelve hours of additional mathematics courses; numbered above MATH 300 (list course #) (12)		
a. MATH _____ b. MATH _____ c. MATH _____ d. MATH _____	_____	_____

CONCENTRATIONS (Optional)

Students may select an optional concentration in applied mathematics, actuarial mathematics, or education. Students selecting a concentration take the courses listed below instead of the 24 credits of additional mathematics.

1. Applied Mathematics Concentration (24)

a. MATH 125, 315, 351(3,3,3)	a. _____	_____
b. MATH 413, 414, 446 (3,3,3)	b. _____	_____
c. Six hours of additional mathematics courses; numbered above MATH 300 (list course #) (6)		
1. MATH _____ 2. MATH _____	_____	_____

2. Actuarial Mathematics Concentration (24)

a. MATH 351, 352 (3,3)	a. _____	_____
b. MATH 441; MATH 442 or 446 (3,3)	b. _____	_____
c. MATH 551, 554 (3,3)	c. _____	_____
d. MATH 555, 556 (3,3)	d. _____	_____

3. Education Concentration (39)

a. MATH 125, 302, 315, 321, 351 (3,3,3,3,3)	a. _____	_____
b. EDCI 372, 483 EDUC 372 (3,3,3)	b. _____	_____
c. EDUC 422, EDCI 490, EDRD 419 (3,6,3)	c. _____	_____
d. One three-credit MATH course above MATH 300 (list course #) (3) MATH _____	d. _____	_____

OTHER REQUIREMENTS (16-24 hours required)

a. For All Students: A one-year of laboratory science sequence chosen from the following:		
1. PHYS 160, 161, 260, 261 (3,1, 3,1)	1. _____	_____
2. BIOL 213 and BIOL 303 or 304 (8)	2. _____	_____
3. CHEM 211, 212 (8)	3. _____	_____
4. GEOL 101, 102 (8)	4. _____	_____
b. For Applied Concentration or no concentration: One of the following three options:		
1. A second sequence for the list above	1. _____	_____
2. PHYS 262, 263 (3,1)	2. _____	_____
3. 6 credits from more advanced courses in biology, chemistry, geology, or physics (but only courses acceptable for credit toward a natural science major)	3. _____	_____
c. For Actuarial Concentration:		
1. ACCT 203, STAT 362 (3,3)	1. _____	_____
2. ECON 103 & either ECON 306, ECON 310, or FNAN 321 (circle choice) (3,3)	2. _____	_____
d. All Concentrations: CS 112 (4)	d. _____	_____

No more than six hours of C- or D in MATH permitted in the major.

GENERAL ELECTIVES (12-23) (A two-year proficiency in either French, German, or Russian is recommended)

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 2009-2010 Catalog; the University Catalog is the official reference for program requirements.