

GEORGE MASON UNIVERSITY
COLLEGE OF SCIENCE
B.A. DEGREE IN MATHEMATICS
(203 Science and Tech I, 703-993-1460)
<http://math.gmu.edu/undergraduate/index.html>
2011-2012 CATALOG

	<u>Department(s) & Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
<u>GENERAL EDUCATION REQUIREMENTS (*38)</u>			
a. Written Communication: ENGH 101 (100), ENGH 302 (C or better) (3,3)		___ ___	___ ___
b. Oral Communication: COMM 100 or 101 (please 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 (3)	_____	___ ___	___ ___
h. Natural Science (4,4)	_____, _____	___ ___	___ ___
i. Global Understanding (3)	_____	___ ___	___ ___
j. Information Technology (3)	_____	___ ___	___ ___
k. Synthesis (3)	_____	___ ___	___ ___

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

COLLEGE REQUIREMENTS (*18)

a. Foreign Language: Intermediate level in a single foreign language.		___ ___	___ ___
b. Philosophy or Religious Studies (3)	_____	___ ___	___ ___
c. Three credits in social & behavioral sciences in addition to the university-wide requirement in social & behavioral science for a total of 6 credits. The two courses used to fulfill the combined college and university requirements must be from different disciplines. This requirement may be fulfilled by completing any course in ANTH, CRIM, ECON, GOVT, HIST (except 100 or 125), LING, PSYC, or SOCI & these courses in GGS: 101, 103, 110, 301, 303, 304, 305, 306, 315, 316, 320, 325, 330, 357, 380	_____	___ ___	___ ___
d. Non-Western Culture (3)	_____	___ ___	___ ___

*The number of hours needed to fulfill General Ed. requirements may vary; see the University Catalog for information. The two courses used to fulfill the college and university requirements for social & behavioral sciences must be from different disciplines.

MAJOR REQUIREMENTS (38 hours required)

a. MATH 113, MATH114 (4,4)		a. ___ ___	___ ___
b. MATH 125, MATH 203 (3,3)		b. ___ ___	___ ___
c. MATH 213 or MATH 215 (circle choice) (3)		c. ___ ___	___ ___
d. MATH 214 or MATH 216 (circle choice) (3)		d. ___ ___	___ ___
e. MATH 290 (writing intensive course), MATH 322 (3,3)		e. ___ ___	___ ___
f. Twelve additional hours above MATH 300 (list course #) (12)			
1. MATH _____ 2. MATH _____		___ ___	___ ___
3. MATH _____ 4. MATH _____		___ ___	___ ___

(A maximum of six hours of grades of C- or D are permitted in major courses.)

CONCENTRATION IN EDUCATION (Optional)

Students selecting the education concentration take the following coursework in place of the 12 credits of MATH electives listed above.

a. MATH 302, MATH 315 (3,3)		a. ___ ___	___ ___
b. MATH 321, MATH 351 (3,3)		b. ___ ___	___ ___
c. EDCI 372, EDCI 483 (3,3)		c. ___ ___	___ ___
d. EDUC 372 (satisfies Social Behavioral Science), EDUC 422 (3,3)		d. ___ ___	___ ___
e. EDCI 490 (satisfies Synthesis) , EDRD 419 (6,3)		e. ___ ___	___ ___

GENERAL ELECTIVES (List 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 2011-2012 Catalog; the University Catalog is the official reference for program requirements.

COURSE LISTS (MATHEMATICS, BA)

University General Education Requirements

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

Oral Communication: COMM 100 or COMM 101

Quantitative Reasoning: MATH 113. The Math Placement Test is required to take MATH 113. 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 372, 396; 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, 301, 302, 304, 305, 306, 308, 309, 314, 321, 322, 388, 435, 436, 480.

Social and Behavioral Sciences: AFAM 200; ANTH 114, 120, 135, 396; CONF 101; CONS 410; CRIM 100; ECON 100, 103, 104, 105, 110, 111 (110 and 111 must be taken together); EDUC 372; GGS 103; GOVT 101, 103; HEAL 230; HIST 121, 122; LING 326; PSYC 100, 211, 231; SOCI 101; SOM 100; TOUR 311; WMST 200

Natural Sciences: ASTR 111/112, 113/114; BIOL 103, 104; BIOL 213; CHEM 103,104,155,156; CHEM 211, 212, 251; CLIM 111/112; EVPP 110,111; GEOL 101,102; GGS 121; PHYS 103,104; PHYS 111/112; PHYS 243/244, 245/246; PHYS 160/161, 260/261; 262/263

Global Understanding: ANTH 302, 304, 306, 307, 308, 309, 311, 312, 313, 331, 332, 385; ARTH 319, 320, 380, 382, 383, 384, 385, 386; CEIE 100; COMM 305, 456; CRIM 405; DANC 118, 318; 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; 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: **One of these courses**: ANTH 395, CDS 130, CHEM 350, CRIM 300, ENGR 117, GOVT 300, IT 103, MUSI 415 **or Course(s) from a) and one course from b): a)** AVT 180; CS 112; PHYS 251; PSYC 300, 301, & 372 (all three must be taken and in sequence); SOCI 410 **b)** CDS 151, CS 105, ENGR 107, ENGR 401, IT 304, PHIL 112

Synthesis: ANTH 400; ARTH 394; AVT 497, 498; BINF 354; BIOL 301; BIS 490; CEIE 490; COMM 326, 362, 454; CONF 490; CONS 490; CRIM 495; CS 306; DANC 490; ECE 447, 492, 493; ECON 309; EDCI 490; ENGH 305; EVPP 335; FAVS 352; FRLN 385; GEOL 420; GGS 303, 304; GOVT 490, 491; HAP 465; HIST 300, 499; IT 492; LAS 499; **MATH 400**; MUSI 490; NCLC 308; PHIL 309, 343, 377, 378; PSYC 405, 406; RELI 490; RUSS 353; SOCI 377, 483; SOCW 323, SOM 498; SPAN 388; SYST 495; THR 440, 496; PROV 342; UNIV 442

Additional Requirements

Foreign Language: Demonstrated intermediate-level proficiency in one foreign language. See this web site for more information: <http://chss.gmu.edu/general-education/foreign-language>

Philosophy or Religious Studies: This can be fulfilled by any course in philosophy or religious studies.

Social Sciences: This can be fulfilled by any course in ANTH; CRIM; ECON; GOVT; HIST (except 100 or 125); LING; PSYC; SOC; or GGS 101, 103, 110, 301, 303, 304, 305, 306, 315, 316, 320, 325, 330, 357, 380,.

Non-western Culture: ANTH 114, 300, 301, 302, 304, 305, 306, 307, 308, 309, 311, 313, 314, 323, 330, 332, 381, 396; ARAB 420, 440; ARTH 203, 204, 319, 320, 380, 382, 383, 384, 385, 482; CHIN 318, 320, 325; DANC 118; ECON 361, 362; **FREN 451, 454**; GGS 101, 316, 325, 330, 399; GOVT 328, 332, 333, 340, 341, 345, 432, 433; HIST 130, 251, 252, 261, 262, 271, 281, 282, 328, 329, 353, 354, 355, 356, 365, 366, 367, 387, 426, 459, 460, 461, 465, 466; JAPA 310; MUSI 103; RELI 211, 212, 272, 313, 314, 315, 337, 374, 375, 490; RUSS 353, 354.

Note: Students do not have to meet each requirement with a separate course; i.e. it is possible that a single course may be used to fulfill more than one college requirement; a single course may fulfill a university requirement and a college requirement; a course may fulfill a general education requirement and/or a college requirement and a requirement for the major.