

**GEORGE MASON UNIVERSITY**  
**SCHOOL OF INFORMATION TECHNOLOGY AND ENGINEERING**  
**B.S. DEGREE IN APPLIED COMPUTER SCIENCE (SOFTWARE ENGINEERING CONCENTRATION)**  
**(4300 The Engineering Building, 703-993-1530)**  
<http://cs.gmu.edu/programs/undergraduate/#BSACS>  
**2012-2013 CATALOG**

	<u>Department(s) &amp; Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
<b><u>GENERAL EDUCATION REQUIREMENTS (31)</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 major requirements)			
d. Literature (3)			
e. Arts (3)	_____	___ ___	___ ___
f. Western Civilization (HIST 100, 125, or acceptable transfer course) (3)	_____	___ ___	___ ___
g. Social & Behavioral Science (3)	_____	___ ___	___ ___
h. Natural Science (4,3)	_____	___ ___	___ ___
i. Global Understanding (3)	_____	___ ___	___ ___
j. Information Technology (satisfied by completion of major requirements)			
k. Synthesis (satisfied by completion of major requirements)	_____	___ ___	___ ___

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

**MAJOR REQUIREMENTS (86 hours required)**

a. CS 101, 105 (2,1)		a. ___ ___	___ ___
b. CS 112, 211 (4,3)		b. ___ ___	___ ___
c. CS 262, 310 (1,3)		c. ___ ___	___ ___
d. CS 321, 330 (3,3)		d. ___ ___	___ ___
e. CS 367, 465 (3,3)		e. ___ ___	___ ___
f. CS 483, ECE 301 (3,3)		f. ___ ___	___ ___
g. One CS course numbered above 400 (3) CS _____		g. ___ ___	___ ___
h. Fourteen hours of Mathematics course work (14)			
1. MATH 113, 114 (4,4)		1. ___ ___	___ ___
2. MATH 203, 125 (3,3)		2. ___ ___	___ ___

**SOFTWARE ENGINEERING CONCENTRATION (37)**

a. STAT 344, CS 306 (3,3)		a. ___ ___	___ ___
b. SWE 205, 301 (3,0)		b. ___ ___	___ ___
c. SWE 401, 437 (3,3)		c. ___ ___	___ ___
d. CS 332 (3)		d. ___ ___	___ ___
e. Any five of the following: CS 363, 450, 455, 468, 471, 475; SWE 432, 443 (15) List courses taken:			
1. _____ 2. _____ 3. _____		e. _____	___ ___
4. _____ 5. _____		f. _____	___ ___
f. ENGH 388 (3)		f. _____	___ ___
g. One of the following: PSYC 333, COMM 320, COMM 355 (3) (circle choice) (3)		g. _____	___ ___

**GENERAL ELECTIVES (List courses)**

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**MINIMUM HOURS TO GRADUATE: 120**

<b>UPPER DIVISION HOURS (minimum 45):</b>
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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 (APPLIED COMPUTER SCIENCE, SOFTWARE ENGINEERING CONCENTRATION)

## 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](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: 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, 367; HEAL 230; HIST 121, 122; LING 306; 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

Non-lab: ASTR 103, 302; CDS 101; CHEM 101, 102, 201, 202; CLIM 101; EVPP 201; GEOL 134; GGS 102; UNIV 301

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: CS 105 and CS 112

Synthesis: CS 306