

**GEORGE MASON UNIVERSITY**  
**THE VOLGENAU SCHOOL OF ENGINEERING**  
**B.S. DEGREE IN COMPUTER SCIENCE (4300 The Engineering Building, 703-993-1530)**  
<http://cs.gmu.edu/programs/undergraduate/#BSCS>  
**2014-2015 CATALOG**

	<u>Department(s) &amp; Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
<b><u>MASON CORE REQUIREMENTS (24)</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 (satisfied by completion of major requirements)			
i. Global Understanding (3)	_____	_____	_____
j. Information Technology (satisfied by completion of major requirements)			
k. Synthesis (satisfied by completion of major requirements)			

Go to: <http://provost.gmu.edu/gened/general-education-requirements/> to link to information on Mason Core requirements.

**MAJOR REQUIREMENTS (91 hours required)**

a. CS 101, CS105 (2,1)		a. ___ ___	___ ___
b. CS 112, CS 211 (4,3)		b. ___ ___	___ ___
c. CS 262, CS 306 (writing intensive course) (1,3)		c. ___ ___	___ ___
d. CS 310, CS 321 (writing intensive course) (3,3)		d. ___ ___	___ ___
e. CS 330, CS 367 (3,3)		e. ___ ___	___ ___
f. CS 465, CS 483 (3,3)		f. ___ ___	___ ___
g. ECE 301(3)		g. _____	_____
h. One of the following: CS 463, CS 471, CS 475 (circle choice) (3)			
h. Any four of the following: CS 425, 440, 450, 451, 455, 463, 468, 469, 471, 475, 477, 480, 482, 484, 485, 490, 499; MATH 446 or OR 481 (circle choices) (12)			
i. Twenty-three hours of Mathematics course work (23)			
1. MATH 113, 114 (8)		1. ___ ___	___ ___
2. MATH 125, 213 (6)		2. ___ ___	___ ___
3. MATH 203 (3)		3. _____	_____
4. STAT 344 (3)		4. _____	_____
j. Six hours of Computer Science related courses chosen from the following: (circle choices) (6) OR 335 (3), 441 (3), 442 (3); ECE 280 (5), 431 (3), 447 (4), 450 (3), 511 (3); PHIL 371 (3), 376 (3); any MATH course numbered above 300 (except MATH 351); any CS course numbered above 300; SYST 371 (3), 470 (3); STAT 354 (3); SWE 432 (3), 437 (3), 443 (3); ENGH 388 (3) (circle choices)			
k. Twelve hours in natural sciences courses intended for scientists and engineers; <b>Include one of these sequences:</b> ASTR 111 (3) & 112 (1), 113 (3) & 114 (1); BIOL 103 (4), 104 (4); CHEM 211 (4), 212 (4); EVPP 110 (4), 111 (4) GEOL 101 (4), 102 (4); PHYS 160 (3), 161(1), 260 (3), 261 (1) (circle choices) (12)			
l. Three hours in arts, humanities, or social science in addition to general education requirements. This requirement can be fulfilled by any University General Education course except those listed under Information Technology, Quantitative Reasoning, Synthesis, or Natural Science (list course) (3)			

**Students must earn a C or better in any course intended to satisfy a prerequisite for a computer science course.  
 CS majors may not use more than one course with grade of C- or lower toward department requirements.**

**GENERAL ELECTIVES** (List courses)

**MINIMUM HOURS TO GRADUATE: 120**

**UPPER DIVISION HOURS (minimum 45):**

# COURSE LISTS (COMPUTER SCIENCE)

## 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: 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, 352, 355; SOM 100; TOUR 311; WMST 200

Natural Sciences: ASTR 111/112 & 113/114; BIOL 103 & 104; CHEM 211 & 212; EVPP 110 & 111; GEOL 101 & 102; 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: CS 105 and CS 112

Synthesis: CS 306 (grade of C or better required to apply as Synthesis)