

**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>  
**2017-2018 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 (Natural Science Section only) (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://catalog.gmu.edu/mason-core/> to link to information on Mason Core requirements.

**MAJOR REQUIREMENTS (88)**

a. CS 110 (3)		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 471, CS 483 (3,3)		f. _____	_____
g. ECE 301(3)		g. _____	_____
h. One of the following: CS 455, CS 468, CS 475 (circle choice) (3)			
h. Any four of the following: CS 425, 440, 450, 451, 455, 463, 465, 468, 469, 475, 477, 480, 482, 484, 485, 490, 491, 499; MATH 446 <b>or</b> 481 (circle choices) (12)			
i. Twenty hours of Mathematics and Statistics course work (20)			
1. MATH 113, 114 (4,4)		1. _____	_____
2. MATH 125, 213 (3,3)		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 301 (3), 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> BIOL 103 (4), 104 (4); CHEM 211 (3) & 213 (1), 212 (3) & 214 (1); GEOL 101 (4), 102 (4); PHYS 160 (3) & 161(1), 260 (3) & 261 (1) (circle choices) (12)			

**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 (8)** (List courses)


**MINIMUM 120 HOURS (including Minimum 45 UPPER DIVISION HOURS) to GRADUATE**

This planning form is intended to be used in consultation with your academic advisor and reflects the requirements for the 2017-2018 Catalog; the University Catalog is the official reference for program requirements.

## COURSE LISTS (COMPUTER SCIENCE)

### Mason Core Requirements

Written Communication: ENGH 101 (or 100) and ENGH 302 (Natural Science Section)

Oral Communication: COMM 100

Quantitative Reasoning: MATH 113. The Math Placement Test is required to take MATH 113. See this web site for more information:  
[http://math.gmu.edu/placement\\_test.php](http://math.gmu.edu/placement_test.php)

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; KORE 311; PHIL 253; RELI 235, 333; 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, 385; DANC 101, 119, 125, 131, 145, 161, 225, 231, 245, 301, 325, 331, 345, 425, 445, 390, 391; ENGH 370, 371, 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, 436, 480; and the following courses for HIST 125: HIST 202, 387.

Social and Behavioral Sciences: AFAM 200; ANTH 114, 120, 135, 363, 372, 396; BUS 100; CONF 101; CONS 410; CRIM 100; ECON 100, 103, 104, 105, 367; EDUC 203, 372; GCH 325; GGS 103; GOVT 101, 103, 367; HEAL 230; HIST 121, 122; LING 306; PSYC 100, 211, 231; SOCI 101, 352, 355; TOUR 311; WMST 200

Natural Sciences: ASTR 111/112 & 113/114; BIOL 103 & 104; CHEM 211/213 & 212/214; EVPP 110 & 111; GEOL 101 & 102; PHYS 160/161 & 260/261

Global Understanding: ANTH 302, 306, 307, 308, 309, 312, 313, 316, 331, 332, 382; ARTH 319, 320, 382, 383, 384, 385, 386; BUS 200; CEIE 100; COMM 305, 456; CRIM 405; DANC 118, 318, 418; ECON 360, 361, 362, 380, 390; ENGH 362, 366; FAVS 300; FRLN 331; GCH 205; GGS 101; GLOA 101; GOVT 132, 133; HIST 251, 252, 261, 262, 271, 272, 281, 282, 328, 329, 356, 357, 358, 360, 364, 365, 387, 460, 462; JAPA 310; MBUS 305; MUSI 103, 431; PHIL 243; PROV 105; PSYC 379; RELI 100, 211, 212, 313, 315, 320, 322, 341, 374; RUSS 354; SOCI 120, 320, 332; SPAN 322, 466; SYST 202; THR 359, TOUR 210; WMST 100

Information Technology: CS 112

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