

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) & Course #(s)</u> | <u>Completed/ Grade(s)</u> | <u>Needed</u> |
|--|--|--------------------------------|---------------|
| <u>MASON CORE REQUIREMENTS (24)</u> | | | |
| 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)

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| a. CS 110 (3) | | | |
| b. CS 112, CS 211 (4,3) | | | |
| c. CS 262, CS 306 (writing intensive course) (1,3) | | | |
| d. CS 310, CS 321 (writing intensive course) (3,3) | | | |
| e. CS 330, CS 367 (3,3) | | | |
| f. CS 471, CS 483 (3,3) | | | |
| g. 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 or 481 (circle choices) (12) | | | |
| i. Twenty hours of Mathematics and Statistics course work (20) | | | |
| 1. MATH 113, 114 (4,4) | | | |
| 2. MATH 125, 213 (3,3) | | | |
| 3. MATH 203 (3) | | | |
| 4. STAT 344 (3) | | | |
| 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; Include one of these sequences: BIOL 103 (4), 106/107 (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) At most 3 credits of 100-level RECR coursework may be taken to satisfy the degree requirements of those VSE programs that allow general electives.

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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

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: 12 credits required for Computer Science Majors

CS Majors Must complete a two semester sequence (8 credits) in one the following along with an additional lab science (4 credits) from this list: BIOL 103 (4), 106/107 (4); CHEM 211 (3) & 213 (1), 212 (3) & 214 (1); GEOL 101 (4), 102 (4); PHYS 160 (3) & 161(1), 260 (3) & 261 (1)

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)