

**GEORGE MASON UNIVERSITY
VOLGENAU SCHOOL OF ENGINEERING
B.S. DEGREE IN APPLIED COMPUTER SCIENCE (GEOGRAPHY CONCENTRATION)
(4300 Nguyen Engineering Building, 703-993-1530)
<http://cs.gmu.edu/programs/undergraduate/acs/>
2016-2017 CATALOG**

| | <u>Department(s) & Course #(s)</u> | <u>Completed/ Grade(s)</u> | <u>Needed</u> |
|--|--|--------------------------------|---------------|
| <u>MASON CORE REQUIREMENTS (22)</u> | | | |
| 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 (satisfied by completion of major requirements) | | |
| h. | Natural Science (4; partially satisfied by completion of major requirements) | ___ ___ | ___ ___ |
| i. | Global Understanding (satisfied by completion of major requirements) | | |
| j. | Information Technology (satisfied by completion of major requirements) | | |
| k. | Synthesis (satisfied by completion of major requirements) | | |

Go to: <http://masoncore.gmu.edu/> to link to information on Mason Core requirements.

MAJOR REQUIREMENTS (93 hours required)

| | | | |
|--|---|------------|---------|
| ACS Foundation Courses (24) | | | |
| a. | CS 101, 105 (2,1) | a. ___ ___ | ___ ___ |
| b. | CS 112, 211 (4,3) | b. ___ ___ | ___ ___ |
| c. | MATH 113, 114 (4,4) | c. ___ ___ | ___ ___ |
| d. | MATH 125, 203 (3,3) | d. ___ ___ | ___ ___ |
| ACS Core (23) | | | |
| a. | ECE 301, CS 262 (3,1) | a. ___ ___ | ___ ___ |
| b. | CS 310, 321 (3,3) | b. ___ ___ | ___ ___ |
| c. | CS 330, 367 (3,3) | c. ___ ___ | ___ ___ |
| d. | CS 465, 483 (3,3) | d. ___ ___ | ___ ___ |
| ACS Elective (3) | | | |
| a. | One CS course numbered above 400 except CS 498 (3) CS _____ | a. ___ ___ | ___ ___ |
| <u>GEOGRAPHY CONCENTRATION (43)</u> | | | |
| a. | GGS 101, 102 (3,3) | a. ___ ___ | ___ ___ |
| b. | GGS 103, 110 (3,3) | b. ___ ___ | ___ ___ |
| c. | GGS 300, STAT 344 (3,3) | c. ___ ___ | ___ ___ |
| d. | GGS 310, 311 (4,3) | d. ___ ___ | ___ ___ |
| e. | GGS 411, 412 (3,3) | e. ___ ___ | ___ ___ |
| f. | GGS 416, 463 (3,3) | f. ___ ___ | ___ ___ |
| g. | One GGS course numbered above 300: GGS _____ | g. ___ ___ | ___ ___ |
| h. | CS 306 (3) | h. ___ ___ | ___ ___ |

GENERAL ELECTIVES (List courses)

| | | | | |
|-------|--|--|--|--|
| _____ | | | | |
| _____ | | | | |

MATH 104, MATH 105, and MATH 108 cannot be counted toward this degree.

Students must take [CS 101](#) within their first year at the university. Students should take [CS 105](#) during their second semester. A grade of C or better must be earned in [CS 306](#) for this course to satisfy the [Mason Core](#) synthesis requirement.

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

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 2016-2017 Catalog; the University Catalog is the official reference for program requirements.

COURSE LISTS (APPLIED COMPUTER SCIENCE, GEOGRAPHY CONCENTRATION)

Mason Core Requirements

Written Communication: ENGH 101 (or 100) and ENGH 302 (Natural Sciences 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.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; KORE 311; 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, 385; DANC 101, 119, 125, 131, 145, 161, 225, 231, 245, 301, 325, 331, 345, 425, 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, 436, 480; and the following courses for HIST 125: HIST 202, 387.

Social and Behavioral Sciences: GGS 103

Natural Sciences: ASTR 111/112, 113/114, 115; BIOL 103, 104; BIOL 213; CDS 101/102; CHEM 103,104,155,156; CHEM 211/213, 212/214, 251; CLIM 102, 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: GGS 101

Information Technology: CS 105 and CS 112

Synthesis: CS 306

