

**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/>
2018 - 2019 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 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 (satisfied by GGS 103) | | | |
| h. Natural Science (4; partially satisfied by GGS 102) _____ | _____ | _____ | _____ |
| i. Global Understanding (satisfied by GGS 101) | | | |
| j. Information Technology (satisfied by completion of major requirements) | | | |
| k. Synthesis (satisfied by CS 306) Grade of C or better required | | | |
| Applied Computer Science majors must take the Natural Sciences section of ENGH 302. | | | |
| Go to: http://catalog.gmu.edu/mason-core/ to link to information on Mason Core requirements. | | | |

MAJOR REQUIREMENTS (91 hours required)

ACS Foundation Courses (24)

| | | | |
|------------------------|--|----------|-------|
| a. CS 110 (3) | | a. _____ | _____ |
| b. CS 112, 211 (4,3) | | b. _____ | _____ |
| c. MATH 113, 114 (4,4) | | c. _____ | _____ |
| d. MATH 125, 203 (3,3) | | d. _____ | _____ |

ACS Core (22)

| | | | |
|----------------------|--|----------|-------|
| a. CS 262 (3) | | a. _____ | _____ |
| b. CS 310, 321 (3,3) | | b. _____ | _____ |
| c. CS 330, 367 (3,4) | | c. _____ | _____ |
| d. CS 471, 483 (3,3) | | d. _____ | _____ |

ACS Elective (3)

| | | | |
|--|--|----------|-------|
| a. One CS course numbered above 400 except CS 498 (3) CS _____ | | a. _____ | _____ |
|--|--|----------|-------|

GEOGRAPHY CONCENTRATION (42)

| | | | |
|---|--|----------|-------|
| 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 (3,3) | | 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. _____ | _____ |

MATH 104, MATH 105, and MATH 108 cannot be counted toward this degree. Students must take CS 110 within their first year at the university. 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.

GENERAL ELECTIVES (7 credits) (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.

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

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 2018 - 2019 Catalog; the University Catalog is the official reference for program requirements.