

**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/>
2017-2018 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 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)			

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 (92 hours required)

<u>ACS Foundation Courses (24)</u>			
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. _____	_____
<u>ACS Core (22)</u>			
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. _____	_____
<u>ACS Elective (3)</u>			
a. One CS course numbered above 400 except CS 498 (3) CS _____		a. _____	_____

GEOGRAPHY CONCENTRATION (43)

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. _____	_____

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 (6) (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 2017-2018 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, 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: GGS 103

Natural Sciences: ASTR 111/112, 113/114, 115; BIOL 103, 106/107, 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 112

Synthesis: CS 306