GEORGE MASON UNIVERSITY  
SCHOOL OF INFORMATION TECHNOLOGY AND ENGINEERING  
B.S. DEGREE IN APPLIED COMPUTER SCIENCE (GEOGRAPHY CONCENTRATION)  
(4300 Nguyen Engineering Building, 703-993-1530)  
http://cs.gmu.edu/programs/undergraduate/acs/  
2015-2016 CATALOG

MASON CORE REQUIREMENTS (22)
<table>
<thead>
<tr>
<th>Department(s) &amp; Course #</th>
<th>Completed</th>
<th>Grade(s)</th>
<th>Needed</th>
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</thead>
<tbody>
<tr>
<td>a. Written Communication: ENGH 101 (100), ENGH 302 (C or better) (3,3)</td>
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<tr>
<td>b. Oral Communication: COMM 100 (3)</td>
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<tr>
<td>c. Quantitative Reasoning (satisfied by completion of major requirements)</td>
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<tr>
<td>d. Literature (3)</td>
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<tr>
<td>e. Arts (3)</td>
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<tr>
<td>f. Western Civilization (HIST 100, 125, or acceptable transfer course) (3)</td>
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<tr>
<td>g. Social &amp; Behavioral Science (satisfied by completion of major requirements)</td>
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<tr>
<td>h. Natural Science (4; partially satisfied by completion of major requirements)</td>
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<tr>
<td>i. Global Understanding (satisfied by completion of major requirements)</td>
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<td>j. Information Technology (satisfied by completion of major requirements)</td>
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<td>k. Synthesis (satisfied by completion of major requirements)</td>
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Go to: http://masoncore.gmu.edu/ to link to information on Mason Core requirements.

MAJOR REQUIREMENTS (93 hours required)
ACS Foundation Courses (24)
<table>
<thead>
<tr>
<th>Department(s) &amp; Course #</th>
<th>Completed</th>
<th>Grade(s)</th>
<th>Needed</th>
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<tbody>
<tr>
<td>a. CS 101, 105 (2,1)</td>
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<tr>
<td>b. CS 112, 211 (4,3)</td>
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<tr>
<td>c. MATH 113, 114 (4,4)</td>
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<td>d. MATH 125, 203 (3,3)</td>
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ACS Core (23)
<table>
<thead>
<tr>
<th>Department(s) &amp; Course #</th>
<th>Completed</th>
<th>Grade(s)</th>
<th>Needed</th>
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<tbody>
<tr>
<td>a. ECE 301, CS 262 (3,2)</td>
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<tr>
<td>b. CS 310, 321 (3,3)</td>
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<td>c. CS 330, 367 (3,3)</td>
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<td>d. CS 465, 483 (3,3)</td>
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ACS Elective (3)
<table>
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<tr>
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<th>Grade(s)</th>
<th>Needed</th>
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<tbody>
<tr>
<td>a. One CS course numbered above 400 except CS 498 (3)</td>
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GEOGRAPHY CONCENTRATION (43)
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<tr>
<th>Department(s) &amp; Course #</th>
<th>Completed</th>
<th>Grade(s)</th>
<th>Needed</th>
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<tbody>
<tr>
<td>a. GGS 101, 102 (3,3)</td>
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<td>b. GGS 103, 110 (3,3)</td>
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<td>c. GGS 300, STAT 344 (3,3)</td>
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<td>d. GGS 310, 311 (4,3)</td>
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<td>e. GGS 411, 412 (3,3)</td>
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<td>f. GGS 416, 463 (3,3)</td>
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<tr>
<td>g. One GGS course numbered above 300: GGS</td>
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<tr>
<td>h. CS 306 (3)</td>
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GENERAL ELECTIVES (List courses)

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

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 2015-2016 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

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; PHIL 253; RELI 235; RUSS 325, 326, 327; SPAN 325


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, 435, 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, 212, 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