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

### MASON CORE REQUIREMENTS (31)

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

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

### MAJOR REQUIREMENTS (87 hours required)

#### ACS Foundation Courses (24)

- a. CS 101, 105 (2,1)
- b. CS 112, 211 (4,3)
- c. MATH 113, 114 (4,4)
- d. MATH 125, 203 (3,3)

#### ACS Core (23)

- a. ECE 301, CS 262 (3,2)
- b. CS 310, 321 (3,3)
- c. CS 330, 367 (3,3)
- d. CS 465, 483 (3,3)

#### ACS Elective (3)

- a. One CS course numbered above 400 except CS 498 (3) CS__________ (circle choice)

#### SOFTWARE ENGINEERING CONCENTRATION (37)

- a. STAT 344, CS 306 (3,3)
- b. SWE 205, 301 (3,0)
- c. SWE 401, 437 (1,3)
- d. CS 332 (3)

- e. Any five of the following: CS 450, 455, 463, 468, 471, 475; SWE 432, 443 (15)

  List courses taken:
  1. __________________ 2. __________________ 3. __________________
  4. __________________ 5. __________________

- f. ENGH 388 (3)
- g. One of the following: PSYC 333, COMM 320, COMM 335 (3) (circle choice) (3)

#### GENERAL ELECTIVES (List courses)

| __________________ | __________________ |
| __________________ | __________________ |

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

### MINIMUM HOURS TO GRADUATE: 120

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, SOFTWARE ENGINEERING 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: AFAM 200; ANTH 114, 120, 135, 363, 372, 396; BUS 100; CONF 101; CONS 410; CRIM 100; ECON 100, 103, 104, 105, 367; EDUC 372; 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: 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

Non-lab: ANTH 135; ASTR 103, 302; CHEM 101, 102, 201, 202; CLIM 101; EVPP 201; GEOL 134; GGS 102; NUTR 295; PHYS 106; PROV 301

Global Understanding: ANTH 302, 306, 307, 308, 309, 311, 312, 313, 316, 331, 332; ARTH 319, 320, 380, 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; MUSI 103, 431; PHIL 243; 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 105 and CS 112

Synthesis: CS 306