

GEORGE MASON UNIVERSITY
SCHOOL OF INFORMATION TECHNOLOGY AND ENGINEERING
B.S. DEGREE IN SYSTEMS ENGINEERING (2100 Nguyen Engineering Building, 703-993-1785)
<http://www.gmu.edu/departments/seor/undergrad.html>
2014-2015 CATALOG

| MASON CORE REQUIREMENTS (*24) | <u>Department(s) & Course #(s)</u> | <u>Completed/ Grade(s)</u> | <u>Needed</u> |
|--|--|--------------------------------|---------------|
| a. Written Communication: ENGH 101 (100), ENGH 302 (C or better; natural science) (3,3) | | ___ ___ | ___ ___ |
| b. Oral Communication: COMM 100 (3) | | ___ | ___ |
| c. Quantitative Reasoning (satisfied by completion of mathematics and basic sciences requirements) | | | |
| d. Literature (3) | | _____ | _____ |
| e. Arts (3) | | _____ | _____ |
| f. Western Civilization (3) | | _____ | _____ |
| g. ECON 103 (3) | | _____ | _____ |
| h. Natural Science (satisfied by completion of mathematics and basic sciences requirements) | | | |
| i. Global Understanding (3) | | _____ | _____ |
| j. Information Technology (satisfied by completion of major requirements) | | | |
| k. Synthesis (satisfied by completion of major requirements) | | | |

Go to: <http://provost.gmu.edu/gened/general-education-requirements/> to link to information on Mason Core requirements.

MATHEMATICS AND BASIC SCIENCES (35 hours required)

| | | |
|---------------------------------|------------|---------|
| a. MATH 113, MATH 114 (4,4) | a. ___ ___ | ___ ___ |
| b. MATH 213, MATH 214 (3,3) | b. ___ ___ | ___ ___ |
| c. MATH 203 (3) | c. _____ | _____ |
| d. CHEM 251 (4) or CHEM 211 (4) | d. _____ | _____ |
| e. PHYS 160, PHYS 161 (3,1) | e. ___ ___ | ___ ___ |
| f. PHYS 260, PHYS 261 (3,1) | f. ___ ___ | ___ ___ |
| g. STAT 344 (3) | g. _____ | _____ |
| h. STAT 354 (3) | h. _____ | _____ |

ENGINEERING SCIENCES (61 hours required)

| | | |
|---|----------|-------|
| a. CS 112 (4) | a. _____ | _____ |
| b. ENGR 107 (2) | b. _____ | _____ |
| c. CS 211 (3) | c. _____ | _____ |
| d. SYST 101 (3) | d. _____ | _____ |
| e. SYST 210 (3) | e. _____ | _____ |
| f. SYST 220 (3) | f. _____ | _____ |
| g. SYST 221 (1) | g. _____ | _____ |
| h. SYST 320 (3) | h. _____ | _____ |
| i. SYST 330 (3) | i. _____ | _____ |
| j. SYST 335 (3) | j. _____ | _____ |
| k. SYST 371 (3) | k. _____ | _____ |
| l. SYST 470 (3) | l. _____ | _____ |
| m. SYST 473 (3) | m. _____ | _____ |
| n. SYST 489 (writing intensive course) (3) | n. _____ | _____ |
| o. SYST 490 (3) | o. _____ | _____ |
| p. SYST 495 (3) | p. _____ | _____ |
| q. OR 441 (3) | q. _____ | _____ |
| r. OR 442 (3) | r. _____ | _____ |
| s. Technical Emphasis Ares: The systems engineering program requires 9 credits of technical electives. Students must select one of the following technical emphases, each containing three courses. See http://catalog.gmu.edu/preview_program.php?catoid=25&poid=22397 for details (9) | | |
| 1. _____ | 1. _____ | _____ |
| 2. _____ | 2. _____ | _____ |
| 3. _____ | 3. _____ | _____ |

MINIMUM HOURS TO GRADUATE: 120

UPPER DIVISION HOURS (minimum 45): Satisfied by required courses.

This planning form is intended to be used in consultation with your academic advisor and reflects the requirements for the 2014-2015 Catalog; the University Catalog is the official reference for program requirements.

COURSE LISTS (SYSTEMS ENGINEERING)

Mason Core Requirements

Written Communication: ENGH 101 (or 100) and ENGH 302 (natural science section)

Oral Communication: COMM 100

Quantitative Reasoning: MATH 113. The Math Placement Test is required to take a MATH course (except 106). 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; 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; DANC 101, 119, 125, 131, 145, 161, 225, 231, 245, 301, 354, 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, 435, 436, 480; and the following courses for HIST 125: HIST 202, 387.

Social and Behavioral Sciences: **ECON 103**

Natural Sciences: PHYS 160/161 & 260/261

Global Understanding: ANTH 302, 304, 306, 307, 308, 309, 311, 312, 313, 316, 331, 332, 385; ARTH 319, 320, 380, 382, 383, 384, 385, 386; CEIE 100; COMM 305, 456; CRIM 405; DANC 118, 318, 418; ECON 360, 361, 362, 380, 390; ENGH 362, 366; GCH 205; GGS 101; GLOA 101; GOVT 132, 133; HIST 130, 251, 252, 261, 262, 271, 272, 281, 282, 328, 329, 356, 358, 360, 364, 365, 387, 460, 462; JAPA 310; MSOM 305; MUSI 103, 431; PHIL 243; PSYC 379; RELI 100, 211, 212, 313, 315, 341, 374; RUSS 354; SOCI 120, 320, 332; SPAN 322; SYST 202; THR 359, TOUR 210; WMST 100

Information Technology: CS 112 and ENGR 107

Synthesis: **SYST 495**

