

**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>  
**2017-2018 CATALOG**

	<u>Department(s) &amp; Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
<b><u>MASON CORE REQUIREMENTS (*24)</u></b>			
a.	Written Communication: ENGH 101 (100), ENGH 302 (C or better; natural science) (3,3)	_____	_____
b.	Oral Communication: COMM 100 or 101 (circle choice) (3)	_____	_____
c.	Quantitative Reasoning (satisfied by completion of mathematics and basic sciences requirements)	_____	_____
d.	Literature (3)	_____	_____
e.	Arts (3)	_____	_____
f.	Western Civilization (3)	_____	_____
g.	<b>ECON 103</b> (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://catalog.gmu.edu/mason-core/> 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) <b>or</b> CHEM 211/213 (3/1) <b>or</b> PHYS 262/263 (3/1) <b>or</b> BIOL 213 (4)(circle choice)	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 (64 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 395 (3)	l.	_____	_____
m.	SYST 470 (3)	m.	_____	_____
n.	SYST 473 (3)	n.	_____	_____
o.	SYST 489 (3) (writing intensive course)	o.	_____	_____
p.	SYST 490 (3)	p.	_____	_____
q.	SYST 495 (3)	q.	_____	_____
r.	OR 441 (3)	r.	_____	_____
s.	OR 442 (3)	s.	_____	_____
t.	Technical Emphasis Ares: The systems engineering program requires nine credits of technical electives. Students must select one of the following technical emphases, each containing three courses. See <a href="http://catalog.gmu.edu/preview_program.php?catoid=29&amp;poid=28552#TECH">http://catalog.gmu.edu/preview_program.php?catoid=29&amp;poid=28552#TECH</a> for details (9)			
1.	_____	1.	_____	_____
2.	_____	2.	_____	_____
3.	_____	3.	_____	_____

\*grade of C or better required

**MINIMUM 123 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 (SYSTEMS ENGINEERING)

## Mason Core Requirements

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

Oral Communication: COMM 100 or COMM 101

Quantitative Reasoning: MATH 113. The Math Placement Test is required to take MATH113. See this web site for more information: [http://math.gmu.edu/placement\\_test.php](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; KORE 311; 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, 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: ECON 103

Natural Sciences: PHYS 160/161 & 260/261

Global Understanding: ANTH 302, 306, 307, 308, 309, 312, 313, 316, 331, 332, 382; ARTH 319, 320, 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; MBUS 305; MUSI 103, 431; PHIL 243; PROV 105; 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 112 and ENGR 107

Synthesis: **SYST 495**

