GEORGE MASON UNIVERSITY SCHOOL OF INFORMATION TECHNOLOGY AND ENGINEERING

B.S. DEGREE IN SYSTEMS ENGINEERING (2100 The Engineering Building, 703-993-1670)

http://www.gmu.edu/departments/seor/undergrad.html

2011-2012 CATALOG

			Completed/			
	<u>Depart</u>	ment(s) & Course #(s)	<u>Grade(s)</u>	<u>Needed</u>		
G	ENERAL EDUCATION REQUIREMENTS (*24)					
	Written Communication: ENGH 101 (100), ENGH 302 (C or better; na	atural science) (3.3)				
	Oral Communication (satisfied by completion of major requirements)					
	. Oral Communication (satisfied by completion of major requirements) . Quantitative Reasoning (satisfied by completion of mathematics and basic sciences requirements)					
	Literature (3) (from approved course list)	•	,			
	Arts (3) (from approved course list)		-			
	Western Civilization (3)					
	ECON 103 (3)					
	Natural Science (satisfied by completion of mathematics and basic so	elences requirements)				
	Global Understanding (3) (from approved course list)	-	_			
	Information Technology (satisfied by completion of major requirement	s)				
k.	Synthesis (satisfied by completion of major requirements)					
M	ATHEMATICS AND BASIC SCIENCES (35 hours require	ed)				
	MATH 113, MATH 114 (4,4)		·			
	MATH 213, MATH 214 (3,3)	h	· <u> </u>			
	MATH 203 (3)	C	•			
	CHEM 251 (4) or CHEM 211 (4)	4	·			
	PHYS 160, PHYS 161 (3,1)	u	•			
		e	·			
	PHYS 260, PHYS 261 (3,1)					
	STAT 344 (3)		·			
h.	STAT 354 (3)	h	·			
	NGINEERING SCIENCES (61 hours required)					
a.	CS 112 (4)	а	·			
b.	ENGR 107(2)	b				
c.	CS 211 (3)	С				
d.	SYST 101 (3)	d				
	SYST 210 (3)					
	SYST 220 (3)	f.				
	SYST 221 (1)					
	SYST 320 (3)	9 h	·			
	SYST 330 (3)	'' '	•			
	SYST 335 (3)					
	SYST 371 (3)	K	·			
	SYST 470 (3)					
	SYST 473 (3)	m				
	SYST 489 (writing intensive course) (3)	n	•			
	SYST 490 (3)	0				
p.	SYST 495 (3)	р	<u> </u>			
q.	OR 441 (3)		·			
	OR 442 (3)	r.				
	Technical Emphasis Ares: The systems engineering program requires	s 9 credits of technical e	lectives. Stude	nts must		
	ect one of the following technical emphases, each containing three courses. See					
http://catalog.gmu.edu/preview_program.php?catoid=17&poid=7247 for details (9)						
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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 2011-2012 Catalog; the University Catalog is the official reference for program requirements.

Course Lists (Systems Engineering)

University General Education Requirements

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

Oral Communication: COMM 100

<u>Quantitative Reasoning</u>: MATH 113. (The Math Placement Test is required to take a MATH course. See this web site for more information: http://cos.gmu.edu/academics/undergraduate/math_placement_testing)

<u>Literature</u>: 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 325; 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, 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, 390, 391; ENGH 372, 396; MUSI 100, 101, 102, 107, 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 or 125: HIST 101, 102, 301, 302, 304, 305, 306, 308, 309, 314, 321, 322, 388, 435, 436, 480.

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, 331, 332, 385; ARTH 319, 320, 380, 382, 383, 384, 385, 386; CEIE 100; COMM 305, 456; CRIM 405; DANC 118, 318; 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; PSYC 379; RELI 100, 211, 212, 313, 315, 341, 374; RUSS 354; SOCI 120, 320, 332; SPAN 322; SYST 100; THR 359, TOUR 210; WMST 100

Information Technology: CS 112 and ENGR 107

Synthesis: SYST 495