

PLAN OF STUDY FOR B.S. IN SYSTEMS ENGINEERING

For students entering Spring 2008 or later

Name: _____

G#: _____

Address: _____

1st Sem. at GMU (e.g., Fall 2007): _____

Advisor's Name: _____

For each class, indicate the year / semester in which the course has been or will be taken.

Example: 08B – Spring 2008, 08D – Summer 2008, 08F – Fall 2008, T – Transfer

			Yr/Sem			
I.	GENERAL EDUCATION REQUIREMENTS (24 credits)					
	A. Written Communication	ENGL 101, 302 (3, 3)	6	_____	_____	
	B. Oral Communication	COMM 100	3	_____		
	C. Literature	(see approved courses)	3	_____		
	D. Fine Arts Elective	(see approved courses)	3	_____		
	E. Western Civilization	HIST 100 or HIST 125	3	_____		
	F. Social and Behavioral Science	ECON 103	3	_____		
	G. Global Understanding	(see approved courses)	3	_____		
II.	MATHEMATICS AND STATISTICS (23 credits)					
	A. Calculus	MATH 113, 114, 213 (4, 4, 3)	11	_____	_____	_____
	B. Differential Equations	MATH 214	3	_____		
	C. Matrix Algebra	MATH 203	3	_____		
	D. Probability for Engineers	STAT 346	3	_____		
	E. Engineering Statistics	STAT 354	3	_____		
III.	BASIC SCIENCES (12 credits)					
	A. Physics	PHYS 160, 161, 260, 261 (3, 1, 3, 1)	8	_____	_____	_____
	B. Natural Science elective	CHEM 251 or CHEM 211	4	_____		
IV.	ENGINEERING SCIENCE (2 credits)					
	A. Engineering Fundamentals	ENGR 107	2	_____		
V.	COMPUTER PROGRAMMING (Counted as MAJOR) (7 credits)					
	A. Introduction to Computer Programming	CS 112	4	_____		
	B. Object-Oriented Programming	CS 211	3	_____		
VI.	SYSTEMS ENGINEERING (43 credits)					
	A. Understanding Systems Engineering	SYST 101	3	_____		
	B. Dynamic Systems Modeling	SYST 220, 221, 320 (3, 1, 3)	7	_____	_____	_____
	C. Systems Methodology & Design	SYST 210, 330 (3, 3)	6	_____	_____	
	D. Discrete Systems Modeling & Simulation	SYST 335	3	_____		
	E. Systems Engineering Management	SYST 371	3	_____		
	F. Deterministic Operations Research	OR 441	3	_____		
	G. Stochastic Operations Research	OR 442	3	_____		
	H. Human Factors Engineering	SYST 470	3	_____		
	I. Decision and Risk Analysis	SYST 473	3	_____		
	J. Senior Seminar	SYST 489	3	_____		
	K. Senior Design Project	SYST 490, 495 (3, 3)	6	_____		
VII.	ELECTIVE SPECIALIZATION (9 credits)					
	Elective sequences chosen from approved specialization areas (OR, CTL, NET, SIS, ENG, AVN)					
	Full Specialization Title: _____					
	Specialization Course 1	_____	3	_____		
	Specialization Course 2	_____	3	_____		
	Specialization Course 3	_____	3	_____		

Semester-hour credits must total at least 120 hours, at least 45 of which must be at the 300/400 level. At least 34 hours must be taken at George Mason University in order to satisfy the residency requirement.

I acknowledge that this plan of study takes into consideration all transfer and advanced placement credits as well as courses taken, or to be taken at George Mason University (including consortia courses), or as approved by George Mason University as "courses to be taken elsewhere."

Student's Signature

Date

Advisor's Signature

Date

Chair's Signature

Date

Students must attach a degree evaluation with this plan of study. The above signatures indicate that the degree evaluation is attached and has been reviewed – in particular to identify transfer credits that do or do not apply to this program.