

# PLAN OF STUDY FOR BACHELOR OF SCIENCE IN SYSTEMS ENGINEERING

For students entering Fall 2005

Name: \_\_\_\_\_ SID: \_\_\_\_\_

Address: \_\_\_\_\_ Advisor's Name: \_\_\_\_\_

\_\_\_\_\_ Email address: \_\_\_\_\_

I.	GENERAL EDUCATION REQUIREMENTS (24 credits)	Yr/Sem * (see note)	
A.	Written Communication ENGL 101, 302 (3, 3)	6	____
B.	Oral Communication COMM 100	3	____
C.	Literature (see approved courses)	3	____
D.	U.S. History HIST 120	3	____
E.	Western Civilization HIST 100	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, 260, 261 (4, 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.	Computer Science I CS 112	4	____
B.	Computer Science II CS 211	3	____
VI.	SYSTEMS ENGINEERING (43 credits)		
A.	Understanding Systems Engineering SYST 101	3	____
B.	Systems Modeling SYST 201, 202, 203 (3, 3, 1)	7	____
C.	Systems Methodology & Design SYST 301, 302 (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, ESD)		
	Full Specialization Title: _____		
	Specialization Course 1 _____	( )	____
	Specialization Course 2 _____	( )	____
	Specialization Course 3 _____	( )	____

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

I acknowledge that this study plan 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

\_\_\_\_\_  
Advisor's Signature

\_\_\_\_\_  
Date:

\* Please indicate the year and semester as follows: Example: 06B – Spring 2006, 06D – Summer 2006, 05F – Fall 2006