BACHELOR OF SCIENCE
MAJOR IN SYSTEMS ENGINEERING

Following is the suggested four-year degree plan. Students are encouraged to see their advisor each semester for help with program decisions and enrollment; responsible for reviewing the **Program of Study Requirements;** and must meet **foreign language** and **writing intensive course** requirements for graduation. See Academic Regulations-Undergraduate online.

*See ***Appendix A Core Curriculum and Optional Course Information.***

FALL			**HOURS**
FRESHMAN YEAR			
UNIV	1101	Learning in a Global Context I	1
ENGL	1301	English Composition I	3
ENGR	1201	Foundations of Engr I	2
HIST	1301	The U.S. to 1877	3
MATH	2413	Calculus I	4
CHEM	1111	General Chemistry I Lab	1
CHEM	1311	General Chemistry I	3
Total			**17**
SOPHOMORE YEAR			
PHYS	2126	University Physics II Lab	1
PHYS	2326	University Physics II	3
ENGL	2311	Technical Communication-WIN	3
ENGR	2103	Statics & Dynamics Lab	1
ENGR	2303	Statics & Dynamics	3
MATH	2415	Calculus III	4
		Lang., Phil., & Culture*	3
Total			18
JUNIOR YEAR			
PSCI	2305	American National Govt	3
SENG	3300	Engineering Economics	3
SENG	3310	Intro to Control Systems	3
SENG	3320	Engr Modeling & Design	3
SENG	3380	Measurements and Devices	3
PHYS	3320	Electromagnetic Field Theory	3
Total			18
SENIOR YEAR			
SENG	4301	Engr Proj Mgt & Proposal	3
SENG	4315	Embedded Systems	3
SENG	4360	Systems Simulation	3
SENG	4330	Operations Research II	3
		Creative Arts*	3
Total			15

SPRING			**HOURS**
FRESHMAN YEAR			
UNIV	1402	Signature Course	4
ENGR	1202	Foundations of Engr II	2
HIST	1302	The U.S. Since 1877	3
MATH	2414	Calculus II	4
PHYS	2125	University Physics I Lab	1
PHYS	2325	University Physics I	3
ENGR	1204	Engineering Graphics	2
SOPHOMORE YEAR			**19**
ENGR	2105	Electrical Engr Lab	1
ENGR	2305	Electrical Engineering	3
ENGR	2376	Cons Prins Thrml Engr	3
MATH	3310	Intro to Linear Algebra	3
COSC	1136	Fundtls of Progrmg Lab	1
COSC	1336	Fundtls of Progrmg	3
MATH	3330	Ordinary Diff Equations	3
JUNIOR YEAR			17
PSCI	2306	American State Govt	3
ENGR	2372	Engineering Statistics	3
SENG	3330	Operations Research I	3
		Engineering Elective[1]	3
SENG	3337	Software Development	3
			15
SENIOR YEAR			
SENG	4350	Facilities Dsgn & Logistics	3
SENG	3340	Robotics & Automation	3
SENG	4390	SE Senior Dgn Proj	3
		Soc/Behavioral Sci*	3
			12

TOTAL SEMESTER CREDIT HOURS: 131

[1]Systems Engineering electives select 3 SCH from SENG 3370, SENG 4340, SENG 4370, SENG 4385, SENG 4152-4352, SENG 4195-4395, and SENG 4199-4399.

Actual degree plans may vary depending on availability of courses in a given semester. Some courses may require prerequisites not listed.