

B.S. Engineering Science - General Engineering concentration

Click on the course number to view course title and description.

Code	Title	Semester Hours
BS Engineering Science - General Engineering concentration Degree Plan (128 hours)		
Core Requirements (47 hours)		
First Year Seminar		3
FYE 1301	First Year Seminar	
Freshmen Composition I		3
EN 1311	Rhetoric and Composition	
or EN 1313	Rhetoric and Composition for International Students	
Literature		3
Any EN 23XX literature course		
History		3
Any 1000, 2000, or 3000-level HS course		
Social Science		6
EG 1303	Engineering and Society	
EG 2393	Engineering Economy	
Mathematics		4
MT 2412	Calculus I	
Natural or Physical Sciences		4
PY 1404	University Physics I	
Foreign Language and International Engagement		6
This requirement is satisfied through one of four ways: (1) One 3-hour course in any language at the 3000 level or above, with a grade of B or better; (2) Two courses (1311 and 1312) in a language not previously studied; (3) Two courses (2311 and 2312) in a language previously studied at the high school or college level; (4) Qualifying scores on an AP or CLEP exam, or both the ACTFL OPI and WPT exams		
Fine Arts		3
EG 1341	Graphics and Design	
Philosophy - Self		3
PL 1301	Intro to Philosophy	
Philosophy - Ethics		3
PL 2301	Foundations of Ethics	
Theology - God		3
TH 1301	Introduction to Theology	
Intermediate Theology		3
Any TH 33xx course		
Engineering Science Major Courses - General Engineering concentration (81 hours)		
CH 1401	General Chemistry I	4
CH 1402	General Chemistry II	4
EG 1113	C Programming for Engineering Lab	1
EG 1213	C Programming for Engineering	2
EG 2121	Circuit Analysis Laboratory	1
EG 2321		3
EG 2324	Circuits Analysis II	3
EG 2343	Statics	3
EG 2344	Dynamics	3
EG 3101	Eng. Design & Analysis Workshop I	1
EG 3102	Eng. Design & Analysis Workshop II	1

EG 3191	Data Visualization and Analytics Laboratory	1
EG 3391	Data Analytics and Information Engineering	3
EG 3395	Industrial Statistics and Design of Experiments	3
EG 4101	Eng. Design & Analysis Workshop III	1
EG 4301	Senior Design Project I	3
EG 4302	Senior Design Project II	3
linkurl^../1/^EG SCI Elective		3
linkurl^../2/^EG SCI Elective		3
linkurl^../3/^EG SCI Elective		3
linkurl^../4/^EG SCI Elective		3
linkurl^../5/^EG SCI Elective		3
linkurl^../6/^EG SCI Elective		3
linkurl^../7/^EG SCI Elective		3
linkurl^../8/^EG SCI Elective		3
MT 2332	Advanced Math for Engineers I	3
MT 2413	Calculus II	4
PY 2404	University Physics II	4
EG Technical Elective I & II: Choose a minimum of 6 credit hours from the following:		6
Choose any course offered in the EG Department not already taken for credit on the BSES#General plan		
Total Semester Hours		128

This is a recommended degree plan subject to changes. Please meet with your advisor on a regular basis.

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First Year

Fall	Semester Spring Hours	Semester Hours
EG 1113	1 MT 2413	4
EG 1213	2 PY 2404	4
EG 1303	3 FYE 1301	3
EN 1311	3 History	3
MT 2412	4 EG 1341	3
PY 1404	4	
	17	17

Second Year

Fall	Semester Spring Hours	Semester Hours
CH 1401	4 CH 1402	4
EG 2121	1 EG SCI Elective #1	3
EG 2321	3 EG 2324	3
MT 2332	3 PL 2301	3
EG 2343	3 EG 2344	3
PL 1301	3	
	17	16

Third Year

Fall	Semester Spring Hours	Semester Hours
EG SCI Elective #2	3 EG SCI Elective #4	3
EG SCI Elective #3	3 EG SCI Elective #5	3
EG Technical Elective I	3 EG SCI Elective #6	3
EG 3101	1 EG 3102	1
EG 3395	3 TH 1301	3
EG 3191	1 Literature	3

EG 3391		3	
		17	16
Fourth Year			
Fall		Semester Spring Hours	Semester Hours
EG Technical Elective II		3 EG 4302	3
EG 4101		1 Theology II	3
EG 4301		3 Foreign Language II	3
Foreign Language I		3 EG SCI Elective #8*	3
EG SCI Elective #7*		3 EG 2393	3
		13	15
Total Semester Hours 128			

* Students in combined BS-MS program may register for an equivalent EG63XX or EG73XX (with EG Chairs' approval)