

BSSE Academic Plan of Study (Sample for 2023-24 Catalog or later)

Year 1					
Semester I			Semester II		
Course ID	Course Name	Cr. Hrs.	Course ID	Course Name	Cr. Hrs.
ENGR 1201**	Intro. to Engr. I	2	ENGR 1202**	Intro. to Engr. II	2
MATH 1241**	Calculus I	3	PHYS 2101**	Physics I	3
WRDS 1103/4	Writing	3	PHYS 2101L	Physics I Lab	1
XXXX 1501	Global Theme 1	3	MATH 1242**	Calculus II	3
	Science Elective* (see list below)	3	MATH 2164**	Matrices & Linear Algebra	3
Subtotal		14	Subtotal		12

Year 2					
Semester I			Semester II		
Course ID	Course Name	Cr. Hrs.	Course ID	Course Name	Cr. Hrs.
PHYS 2102	Physics II	3	SEGR 2110	Systems Engr. Concepts	3
PHYS 2102L	Physics II Lab	1	STAT 3128**	Prob. & Stat. for Engr.	3
SEGR 2105**	Comp. Meth. for Sys. Engr.	3	CHEM 1251	Principles of Chemistry I	3
MATH 2241	Calculus III	3	CHEM 1251L	Principles of Chemistry Lab. I	1
XXXX 1502	Global Theme 2	3	CTCM 2350	Critical Thinking and Comm.	3
SEGR 2106	Engr. Economic Analysis	3		Technical Elective	3
Subtotal		16	Subtotal		16

Year 3					
Semester I			Semester II		
Course ID	Course Name	Cr. Hrs.	Course ID	Course Name	Cr. Hrs.
XXXX 1511	Local Theme 1	3	SEGR 3102**	Sys. Simul. Modeling & Anal.	3
SEGR 3105	Comp. Meth. for Sys. Engr. II	3	SEGR 3111	Project Management	3
SEGR 3107**	Decision and Risk Analysis	3	MATH 2171	Differential Equations	3
SEGR 3201	Operations Res.-Deterministic	3	SEGR 3202	Operations Res.-Probabilistic	3
	Concentration Course***	3	SEGR 3110	System Design and Deployment	3
				Concentration Course***	3
Subtotal		15	Subtotal		18

Year 4					
Semester I			Semester II		
Course ID	Course Name	Cr. Hrs.	Course ID	Course Name	Cr. Hrs.
SEGR 3290**	Sys. Design Project I	2	SEGR 3291	Design Project II	2
ENGR 3295	Prof. Development	1	SEGR 4170	Total Quality Systems	3
SEGR 4114	Production Control Systems	3	XXXX 1512	Local Theme 2	3
SEGR 4141	Engr. Experimental Design	3		Concentration Course***	3
	Concentration Course***	3		Technical Elective	3
	Technical Elective	3			
Subtotal		15	Subtotal		14
Total Cr. Hrs.					120

*** If Energy Systems Concentration is declared:

3 from {SEGR 4961, 4962, 4963, 4964}

1 from {above courses} or {SEGR 4201, 4202, 4203}

* BIOL 1110, 2120, CHEM 1200, ESCI 1101,

GEOL 1200, PHYS 1102, 1130, 1201, 1202, 1203

** C or better required