Course Dependency | Calc II Start | Bachelor of Science in System Engineering

Semester 1 (Fall)	Semester 2 (Spring)	Semester 3 (Fall)	Semester 4 (Spring)	Semester 5 (Fall)	Semester 6 (Spring)	Semester 7 (Fall)	Semester 8 (Spring)
APMA 1110 Single Var. Calc. II (4)	APMA 2120 Multivari. Calc. (4)	APMA 2130 Ord. Diff. Eq. (4)		APMA 3080 Linear Alg. (3)	SYS 3034 System Eval. (3)	STS 4500 STS & Engr Practice (7) (3)	STS 4600 Engr., Ethic & Prof. Resp. (3)
	CS 111X Intro. to Programming (3)	SYS 2001 SE Concepts (3)	APMA 3100 Probability (3)	SYS 3021 Determ. Decision Models (3)	SYS 3060 Stoc. Decision Models (3)	**Require 4th-Year Systems Standing (6)** SYS 4053 System Design I (3)	SYS 4054 System Design II (3)
ENGR 1010 Engineering Foundations 1 (4)	ENGR 1010 Engineering Foundations 2 (3)	CS 2100 Data Structures & Algor. (4)	SYS 2202 Data Mgmt. (3)	APMA 3120 Statistics (3)		SYS 4055 Design Coll. II (1)	
				SYS 3023 Human-Machine Interface (3)	SYS 3062 Discrete Event Sim. (4)	SYS 4021 Linear Stat. Models (4)	
CHEM 1410 & 1411 Intro. Chem & Lab (4)	PHYS 1425 & 1429 Phys I & Wkshp (4)	ECE 2200 or PHYS 2415 & 2419 Phys II & Wkshp (4)	Unrestricted Elective (3)	SYS 3055 Design Coll. I (1)	Application Elective (4) (3)	Application Elective (4) (3)	Technical Elective (5) (3)
	Math/Science Elective I (1) (3)		STS 2600 Engineering Ethics (3)		Technical Elective (5) (3)	Unrestricted Elective (3)	Application Elective (4) (3)
HSS Elective (3) (3)		HSS Elective (3) (3)	Science Elective II (2) (3)	HSS Elective (3) (3)			Unrestricted Elective (3)
15	**17**	**18**	**15**	**16**	**16**	**17**	**15**

129 credits – minimum required for graduation.   Additional information on electives on SE website under "Electives."

(1) Suitable science elective I courses are shown on SEAS approved list on the web.

(2) Science II electives should be chosen from approved 2000, 3000, and 4000 science or mathematics courses. See approved list on the SE website.

(3) Nine credits of humanities and social science electives should be selected in a related subject area of humanities and social sciences.

(4) Nine credits of applications electives should be selected in a related applications area of systems engineering. See SE website for details.

(5) Six credits of technical electives. See criteria for technical electives on SE website.

(6) Fourth year Systems standing requires satisfactorily (C- or better) completing SYS 2001 and 2202 and also completing at least 4 of SYS 3021, 3023, 3034, 3060, and 3062.

Content Revised 06/30/2025

- - - → Co-requisite

Shaded = Course only for SE Majors

⟶ Pre-requisite