Course Dependency | Calc 1 Start | Bachelor of Science in System Engineering Semester 6 Semester 1 Semester 2 Semester 3 Semester 4 Semester 5 Semester 7 Semester 8 (Fall) (Fall) (Spring) (Spring) (Fall) (Spring) (Fall) (Spring) APMA 1090 APMA 1110 APMA 2120 APMA 3100 APMA 3120 STS 4500 STS 4600 Single Var. Calc. STS & Engr Single Var. Calc. Multivari. Calc. Probability Statistics Engr., Ethic & Practice (7) Prof. Resp. 3 II 3 3 SYS 3034 System Eval. SYS 4021 Linear Stat. Models 3 CHEM 1410/1411 PHYS 1425/1429 ECE 2200 or APMA 2130 Intro. Chem & Phys I & Wkshp PHYS 2425/2429 Ord. Diff. Eq. SYS 3062 Phys I & Wkshp 4 Lab Simulation Requires 4th-Year Systems Standing (7) APMA 3080 Linear Algebra **CS 111X** SYS 2202 SYS 2201 or CS SYS 4053 SYS 4054 Intro. to Data and Inf. 2100 Programming 3 System Design System Design Engin. 4 4 (3) SYS 3060 SYS 3021 Stoc. Decision Determ. Decision **ENGR 1010 ENGR 1020** Models 3 SYS 2001 Models (3) Engineering Engineering SE Concepts Foundations 1 4 Foundations 2 SYS 3023 **Systems Methodology** HMI **Humans/Design** Systems Elective Systems Elective Systems Elective **Decisions/Modeling** STS 2600 (4)(4)(4)Engineering SYS 3055 3 3 Data/Information 3 Ethics Design Coll. I Math Unrestricted Unrestricted Unrestricted Unrestricted STS Elective (6) Elective (6) Elective (6) Elective (6) 3 3 Science Elective I HSS Elective (3) HSS Elective (3) HSS Elective (3) Engineering (1)Elective (5) 3 (3) (3) 3 3 14 17 18 17 16 16 16 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.
- (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 Systems Electives. See criteria for Systems Electives on the SE website.
- (5) Three credits of Engineering Electives. See criteria for Engineering Electives on SE website.
- (6) Twelve credits of Unrestricted Electives. See criteria for Unrestricted Electives on the SE website.
- (7) 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 June 18, 2025

Co-requisite

Pre-requisite