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

### Semester 1 (Fall)
- **APMA 1090** Single Var. Calc. I (4)
- **STS 1500** Science, Tech., & Contemporary Issues. Society (3)
- **ENG 1624** Intro. to Engr. (4)
- **CHEM 1610** Intro. Chem & Lab (4)

### Semester 2 (Spring)
- **APMA 1110** Single Var. Calc. II (4)
- **CS 111X** Intro. to Programming (3)
- **PHYS 1425** Phys I & Wkshop (4)
- **HSS Elective** (3)

### Semester 3 (Fall)
- **APMA 2120** Multivar. Calc. (4)
- **SYS 2001** SE Concepts (3)
- **PHYS 2415** Phys II & Wkshop (4)
- **HSS Elective** (3)

### Semester 4 (Spring)
- **APMA 2130** Ord. Diff. Eq. (4)
- **APMA 3100** Probability (3)
- **Science Elective II** (3)
- **STS 2/3XXX Elective** (7)

### Semester 5 (Fall)
- **APMA 3080** Linear Alg. (4)
- **SYS 3021** Determ. Decision Models (3)
- **SYS 3055** Design Coll. I (1)
- **HSS Elective** (3)

### Semester 6 (Spring)
- **APMA 3120** Statistics (3)
- **SYS 3060** Stoc. Decision Models (3)
- **SYS 3062** Discrete Event Sim. (4)
- **Unrestricted Elective** (3)

### Semester 7 (Fall)
- **SYS 3034** System Eval. (3)
- **SYS 4053** System Design I (3)
- **SYS 4054** System Design II (3)
- **SYS 4055** Design Coll. II (1)

### Semester 8 (Spring)
- **SYS 4021** Linear Stat. Models (4)
- **Application Elective** (4)
- **Application Elective** (4)
- **Unrestricted Elective** (3)

**128 credits** — minimum required for graduation. Additional information on electives on SEAS website under "Electives."

1. Suitable science elective I courses are shown on SEAS approved list on the web.
2. Science III electives should be chosen from 2000, 3000, and 4000 science or mathematics courses approved for science majors.
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.
5. Six credits of technical electives. See criteria for technical electives on SE website.
6. Fourth year standing requirements satisfactorily (C- or better) completing SYS 2001 and 2202 and also completing at least 4 of SYS 3021, 3023, 3034, 3060, and 3062.
7. STS 1500 is a pre-requisite for many STS 2/3XXX electives. STS 2/3XXX is a pre-requisite for STS 4500.

**Co-requisite**

**Pre-requisite**

**Shaded** = Course only for SE Majors

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