Course Dependency | Calc | Start | Bachelor of Science in System Engineering Semester 1 Semester 2 Semester 3 Semester 4 Semester 5 Semester 6 Semester 7 Semester 8 (Fall) (Spring) (Fall) (Spring) (Fall) (Spring) (Fall) (Spring) SYS 3034 System Eval APMA 3080 APMA 1090 **APMA 2130** Linear Alg. Single Var. Calc. APMA 1110 APMA 2120 3 Ord. Diff. Eq. Single Var. Calc. Multivari. Calc. 4 4 II 4 4 STS 4500 STS 4600 STS & Engr Engr., Ethic & Practice (7) Prof. Resp. SYS 3021 Determ. Decision SYS 2001 SYS 3060 Models Require 4th-Year Systems Standing (6) SE Concepts 3 **CS 111X** APMA 3100 Stoc. Decision Models 3 Intro. to 3 Probability STS 1500 Programming 3 Science, Tech, & SYS 4053 SYS 4054 APMA 3120 Contemporary CS 2100 System Design System Design Statistics Issues. Society **Data Structures** 3 (3 & Algor. 4 SYS 4055 Design Coll. II SYS 3023 **ENGR 1620** Human-Machine and 1621 Intro. SYS 2202 Interface to Engr. 4 3 Data Mgmt. SYS 3062 3 Discrete Event SYS 4021 Sim. Linear Stat. CHEM 1410 & 1411 PHYS 1425 & 1429 PHYS 2415 & 2419 Technical Models Intro. Chem & Lab Phys I & Wkshp Phys II & Wkshp Elective (5) 3 4 4 SYS 3055 Science Elective I Science Elective II Application Application Application Design Coll. I

18 129 credits - minimum required for graduation. Additional information on electives on SE website under "Electives."

3

HSS Elective (3)

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

3

(1)

15

HSS Elective (3)

17

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

(2)

STS 2/3XXX

Elective (7)

16

- (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.

3

(7) STS 1500 is a pre-requisite for many STS 2/3XXX electives. STS 2/3XXXis a pre-requisite for STS 4500.

Elective (4)

Unrestricted

15

Shaded = Course only for

SE Majors

Elective

3

3

Pre-requisite

(3)

3

Co-requisite

Elective (4)

Unrestricted

17

Elective

Elective (4)

Technical

Elective (5)

16

3

3

1

3

HSS Elective (3)

16

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