

Systems Science and Engineering (SSE)

MINIMUM 40 CU'S TOTAL

Course Planning Guide (Entered in Fall 15C or after)

1. MATHEMATICS AND NATURAL SCIENCE (MINIMUM 10 CU'S)

- MATH 104
- MATH 114
- MATH 240
- ESE 301
- ESE 302
- PHYS 140 or PHYS 150 or PHYS 170 or PHYS 93 or MEAM 110
- PHYS 141 or PHYS 151 or PHYS 171 or PHYS 94
- CHEM 101 or BIOL 101 or BIOL 121

Natural Science Lab (one CU total).

- (PHYS 150/170 or PHYS 50 or MEAM 147)
- (PHYS 151/171 or PHYS 51), BIOL 101/121, CHEM 53 can each count 0.5 CU to this requirement)
- MATH 312 or EAS205

LEGEND:

M Mathematics
NS Natural Science
E Engineering
SS Social Science
H Humanities
TBS Technology in Business & Society
F Free
 See the SEAS [UG Student Handbook](#) for approved courses in these categories.
 Any required course in any category may be replaced by a higher-level version of that course.

2. ENGINEERING (MINIMUM 15 CU'S)

SYSTEMS FOUNDATIONS

- ENGR 105 or CIS 110
- ESE 111
- CIS 120
- ESE 204
- ESE 210
- ESE 224
- ESE 303

INFORMATION SYSTEMS ELECTIVE

Three of ESE 304, ESE 407, ESE 420, ESE 504, ESE 505, ESE 512, ESE 520, ESE 528, NETS 212, NETS 312, NETS 412, CIS 240, CIS 330, CIS 450

- _____
- _____
- _____

SYSTEM DESIGN

- One of CIS 350, CIS 441, ESE 527, ESE 590
- One of ESE 290/291, ESE 350, BE470, ESE 505
- ESE 450
- ESE 451

3. PROFESSIONAL ELECTIVES

(NOMINALLY 5 CU'S)

TECHNOLOGY MANAGEMENT ELECTIVE

Two of ESE400, EAS545, EAS595, Mgmt 235, or Mgmt 237

- E _____
- _____

SOCIETAL PROBLEM APPLICATION

- _____
- _____
- _____

EXPLANATORY NOTES:

¹Two of the courses in the SSH category must satisfy the depth and writing requirements. See the SEAS_ [UG Student Handbook](#)

4. SOCIAL SCIENCE AND HUMANITIES¹ (MINIMUM 7 CU'S)

- SS _____
- SS _____
- H _____
- H _____
- SS or H _____
- SS, H, or TBS _____
- SS EAS 203 _____

Depth Requirement

Writing Requirement

5. FREE ELECTIVES (3 CU'S)

- F _____
- F _____
- F _____

TERM	MATH & NAT SCI	ENGINEERING	TECHNICAL ELEC'S	SSH & FREE ELEC'S
Fall, Frosh				
Spr, Frosh				
Sum, Yr _____				
Fall, Soph				
Spr, Soph				
Sum, Yr _____				
Fall, Junior				
Spr, Junior				
Sum, Yr _____				
Fall, Senior				
Spr, Senior				
Sum, Yr _____				
Fall, Yr _____				
Spr, Yr _____				

STUDENT NAME: _____ SID: _____ EXP GRAD DATE: _____ EMAIL: _____

FACULTY ADVISOR NAME: _____ SIGNATURE: _____ DATE SIGNED: _____

UG CHAIR NAME: _____ SIGNATURE: _____ DATE SIGNED: _____