

Systems Science and Engineering (SSE)

MINIMUM 40 CU'S TOTAL

Entered in Fall 2017 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 MEAM 110
- ESE112 or PHYS 141 or PHYS 151 or PHYS 171
- CHEM 101 or BIOL 101 or BIOL 121

- Natural Science Lab (one CU total. (PHYS 150/170 or MEAM 147), (ESE112 or PHYS 151/171), BIOL 101/121, CHEM 53 can each count 0.5 CU to this requirement)
- MATH 312 or EAS205

2. ENGINEERING (MINIMUM 16 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 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 350, ESE 290/291, (BE470 + 0.5 CU Engineering), or (ESE 505 + 0.5 CU Engineering)
- ESE 450
- ESE 451

ENGINEERING (1 CU)

- _____

3. PROFESSIONAL ELECTIVES

(NOMINALLY 4 CU'S)

TECHNOLOGY MANAGEMENT ELECTIVE

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

- _____

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)

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

Depth Requirement

Writing Requirement

5. FREE ELECTIVES (3 CU'S)

- F _____
- F _____
- F _____

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.

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: _____