

# Computer Engineering (CMPE)

MINIMUM 40 CU'S TOTAL

Course Planning Guide (Class of 2021 and later)

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

- MATH 104
- MATH 114
- MATH 240
- ESE 301 or CIS261 or STAT 430 or MATH 430 or ENM 321
- CIS 160
- PHYS 140 or PHYS 150 or PHYS 170 or MEAM 110
- ESE112 or PHYS 151 or PHYS 171
- CHEM 101 or BIOL 101 or BIOL 121
- 0.5 CU Natural Science Lab (PHYS 150/170, MEAM 147, BIOL 101/121, or CHEM 53 each count 0.5 CU to this requirement)
- M or NS Elective \_\_\_\_\_

### 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 16 CU'S)

### CORE COURSES

- CIS 120
- CIS 121
- ESE 150
- ESE 215
- CIS 240
- ESE 350
- CIS 350
- ESE 370
- CIS 371
- CIS 380
- CIS 441

### NETWORKING

- Choose from (ESE407, CIS553)
- Networking \_\_\_\_\_

### CONCURRENCY LAB

- Choose from (CIS 455, ESE 532, CIS 565)
- Concurrency Lab \_\_\_\_\_

### SENIOR DESIGN

- ESE 450 or CIS 400
- ESE 451 or CIS 401

## 3. TECHNICAL ELECTIVES<sup>1</sup> (NOMINALLY 4 CU'S)

- M, NS, or E \_\_\_\_\_
- M, NS, or E \_\_\_\_\_
- M, NS, or E \_\_\_\_\_
- M, NS, or E, or One of ESE400, EAS545, EAS595, Mgmt 235, Mgmt 237

### EXPLANATORY NOTES:

<sup>1</sup> At most, two freshman-level E course may be used as a technical elective.  
<sup>2</sup> Two of the courses in the SSH column must satisfy the depth and writing requirements. See the SEAS [UG Student Handbook](#) for details.  
<sup>3</sup> Can satisfy with EAS203, EAS303 or CIS125.

## 4. SOCIAL SCIENCE AND HUMANITIES<sup>2</sup> (MINIMUM 7 CU'S)

- SS Elective \_\_\_\_\_
- SS Elective \_\_\_\_\_
- H Elective \_\_\_\_\_
- H Elective \_\_\_\_\_
- SS or H \_\_\_\_\_
- SS, H, or TBS \_\_\_\_\_
- SS, H, or TBS \_\_\_\_\_

### Depth Requirement

### Writing Requirement

### Engineering Ethics Requirement<sup>3</sup>

## 5. FREE ELECTIVES (3 CU'S)

- F Elective \_\_\_\_\_
- F Elective \_\_\_\_\_
- F Elective \_\_\_\_\_

## SEMESTER PLANNING

TERM	MATH & NAT SCI	ENGINEERING	TECHNICAL ELEC'S	SSH & FREE ELEC'S
Fall, Yr _____				
Spr, Yr _____				
Sum, Yr _____				
Fall, Yr _____				
Spr, Yr _____				
Sum, Yr _____				
Fall, Yr _____				
Spr, Yr _____				
Sum, Yr _____				
Fall, Yr _____				
Spr, Yr _____				
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: \_\_\_\_\_