**Students must meet with their advisor prior to registering for courses. This roadmap is designed for general planning ONLY! Roadmaps for more than 5 years plan may vary please consult with your department.**

**Bold= must take courses & pass before applying**

**Shaded: Graduate Level**

### SF State Scholars
*Tentative* Computer Engineering Roadmap

### Freshman
- **Fall**
  - CHEM 180 or 115
  - ENG 114
  - ENGR 100 + 121 + 212
  - MATH 226
  - Area A
  - 17-19 Units (17-19 total)
- **Spring**
  - ENGR 213
  - MATH 227
  - PHYS 220 + 222
  - Area D
  - 17 Units (34-36 total)

### Sophomore
- **Fall**
  - CSC 210
  - MATH 228
  - PHYS 230/232
  - Area B2
  - Area C
  - 17 Units
  - (84-86 total)
- **Spring**
  - MATH 245
  - ENGR 205 + 206
  - CS 220
  - Area D
  - 16 Units
  - (67-69 total)

### Junior
- **Fall**
  - ENGR 300 + 301
  - ENGR 305
  - ENGR 353
  - ENGR 356 + 357
  - Area C
  - 17 Units
  - (109-111 total)
- **Spring**
  - ENGR 451
  - ENGR 476
  - ENGR 478
  - CSC 340
  - Area D
  - 16 Units
  - (100-102 total)
- **Summer**
  - UD-C
  - Area C
  - 9 Units
  - (109-111 total)

### Senior
- **Fall**
  - CS 413
  - ENGR 378
  - ENGR 696
  - UD-Elective
  - ENGR 844
  - Graduate Elective
  - 16-17 Units
  - (125-128 total)
- **Spring**
  - ENGR 697 GW
  - ENGR 378
  - ENGR 852
  - Graduate Elective
  - 17 Units
  - (142-145 total)

### Graduate
- **Fall**
  - ENGR 800
  - ENGR 801
  - ENGR 897
  - Graduate Elective
  - ENGR 895
  - Graduate Elective
  - 9 Units
  - (151-154 total)
- **Spring**
  - ENGR 898
  - Graduate Elective
  - ENGR 898
  - Graduate Elective
  - 9 Units
  - (160-163 total)

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| Minimum Units required for Bachelors | 128 |
| Minimum Units required for Masters | 30 |