

This worksheet is a guideline for this major. Please meet with a counselor to review your educational plan, transfer goals, and graduation requirements.

**Major Requirements**

| Need | In Progress | Complete | UNITS | COURSE #                     | COURSE NAME   | EQUIVALENT |
|------|-------------|----------|-------|------------------------------|---|------------|
|      |             |          | 3     | ENGIN-010                    | Introduction to Engineering (offered both semesters)  |            |
|      |             |          | 4     | ENGIN-020<br>or<br>ENGIN-022 | Programming with C++ for Engineers and Scientists<br>Programming with MATLAB for Engineers and Scientists |            |
|      |             |          | 3     | ENGIN-025                    | Engineering Graphics  |            |
|      |             |          | 4     | ENGIN-030                    | Materials Science   |            |
|      |             |          | 3     | ENGIN-045                    | Engineering Circuits  |            |
|      |             |          | 5     | CHEM-025                     | General College Chemistry   |            |
|      |             |          | 4     | PHYS-040                     | Physics for Scientists and Engineers I  |            |
|      |             |          | 4     | PHYS-041                     | Physics for Scientists and Engineers II   |            |
|      |             |          | 4     | PHYS-042                     | Physics for Scientists and Engineers III  |            |
|      |             |          | 4     | MATH-050                     | Calculus and Analytic Geometry I  |            |
|      |             |          | 4     | MATH-060                     | Calculus and Analytic Geometry II   |            |
|      |             |          | 4     | MATH-070                     | Calculus and Analytic Geometry III  |            |
|      |             |          | 4     | MATH-080                     | Differential Equations  |            |

**Electives -- Select two courses from the list below:**

|  |  |  |        |                               |  |
|--|--|--|--------|-------------------------------|--|
|  |  |  | 3 each | ENGIN-036, 038, 046, MATH-075 |  |
|--|--|--|--------|-------------------------------|--|

**55 Units for the major**

**General Education Requirements and Course Recommendations**

| Need | In Progress | Complete | UNITS | AREA | REQUIRED | RECOMMENDED COURSE   | EQUIVALENT/ALTERNATE |
|------|-------------|----------|-------|------|----------|--|----------------------|
|      |             |          | 3     | A    | 1        | ASTRO 010, BIOSC 005, 007, 008, 010, ENGIN 010, PHYS 015, PHYSC 005  |                      |
|      |             |          | 3     | B    | 1        | ADJUS 110, 160, ANTHR 001, 004, 005, 006, 007, CHDEV 010, 020, ECON 005, 010, 011, EDUC-040, ENGL 110, 136, HIST 029, 030, 031, 033, 034, 035, 038, 039, 040, 055, 061, POLSC 010, 020, 033, 040, 043, 050, PSYCH 010, 011, SOCIO 015, 016, SOCSOC 045, 110, SPCH 120, 180 |                      |
|      |             |          | 3     | C    | 1        | ART 005, 006, 007, 008, 009, 016, 017, 018, 035, DRAMA 015, 016, 025, 070, 072, ENGL 124, 127, 128, 129, 133, 150, 205, 230, 231, HUMAN 019, 020, 021, 022, 024, 030, 035, JOURN 100, 110, MUSIC 010, 012, 015, PHIL 002, 033, 040, 042, SPCH-110, 130                     |                      |
|      |             |          | 3     | D i. | 1        | ENGL 100   |                      |
|      |             |          | 3 - 7 | D ii | 1        | MATH 026, 029, 030 or higher   |                      |
|      |             |          | 3     | E    | 1        | ADJUS 160, CHDEV 050, DRAMA 015, 030, 072, ENGL 110, 127, 128, 129, 133, 135, 136, HIST 046, 047, 052, 055, 061, SOCSOC 045, 110, 135, SPCH 150  |                      |

**18-22 Units of General Education**

**0 units of elective courses needed to meet the 60 degree applicable unit requirement**

Engin 010 is offered every semester. The other Engin classes are only offered once a year.