



Name: \_\_\_\_\_

ID: \_\_\_\_\_

Date: \_\_\_\_\_

Advisor Contact: \_\_\_\_\_

**A grade of "C" or better is required in the following courses**

| ASSOCIATE IN SCIENCE  | C-ID      | Units | Completed | In Progress | Planned |
|---|-----------|-------|-----------|-------------|---------|
| <b>Required Core (26 units)</b>   |           |       |           |             |         |
| ENGR 5, Programming and Problem Solving in MATLAB   | ENGR 220  | 3     |           |             |         |
| ENGR 10, Introduction to Engineering  | ENGR 110  | 2     |           |             |         |
| MATH 5A, Mathematical Analysis I  | MATH 210  | 5     |           |             |         |
| MATH 5B, Mathematical Analysis II   | MATH 220  | 4     |           |             |         |
| MATH 6, Mathematical Analysis III   | MATH 230  | 4     |           |             |         |
| PHYS 4A, Physics for Scientists and Engineers   | PHYS 205  | 4     |           |             |         |
| PHYS 4B, Physics for Scientists and Engineers   | PHYS 210S | 4     |           |             |         |
| <b>Engineering- Civil AS (F.3011. AS)</b><br><b>Select a minimum of 4 courses (14-17)</b>       |           |       |           |             |         |
| CHEM 1A, General Chemistry  | CHEM 110  | 5     |           |             |         |
| ENGR 1A, Elementary Plane Surveying 1   |           | 4     |           |             |         |
| ENGR 2, Graphics  | ENGR 150  | 4     |           |             |         |
| ENGR 4, Engineering Materials   | ENGR 140  | 3     |           |             |         |
| ENGR 8, Statics   | ENGR 130  | 3     |           |             |         |
| MATH 7, Introduction to Differential Equations  | MATH 240  | 4     |           |             |         |
| PHYS 4C, Physics for Scientists and Engineers   | PHYS 215S | 4     |           |             |         |
| <b>Engineering- Computer, Software (F.3012.AS)</b><br><b>Select a minimum of 4 courses (16)</b> |           |       |           |             |         |
| CSCI 40, Programming Concepts & Methodology I   |           | 4     |           |             |         |
| CSCI 41, Programming Concepts & Methodology II  |           | 4     |           |             |         |
| ENGR 6, Circuits with Lab   | ENGR 260  | 4     |           |             |         |
| ENGR 12, Digital Logic Design   |           | 4     |           |             |         |
| MATH 7, Introduction to Differential Equations  | MATH 240  | 4     |           |             |         |
| PHYS 4C, Physics for Scientists and Engineers   | PHYS 215S | 4     |           |             |         |
| <b>Engineering: Electrical, AS (F.3013.AS)</b><br><b>Select a minimum of 4 courses (16-17)</b>  |           |       |           |             |         |

|  |           |   |  |  |  |
|--|-----------|---|--|--|--|
| CHEM 1A, General Chemistry   | CHEM 110  | 5 |  |  |  |
| ENGR 6, Circuits with Lab  | ENGR 260  | 4 |  |  |  |
| ENGR 12, Digital Logic Design  |           | 4 |  |  |  |
| MATH 7, Introduction to Differential Equations<br><b>OR</b><br>CSCI 40, Programming Concepts & Methodology I                 | MATH 240  | 4 |  |  |  |
| PHYS 4C, Physics for Scientists and Engineers  | PHYS 215S | 4 |  |  |  |
| <b>Engineering: Mechanical, Aerospace, and Manufacturing, AS (F.3014.AS)</b><br><b>Select a minimum of 4 courses (13-17)</b> |           |   |  |  |  |
| CHEM 1A, General Chemistry   | CHEM 110  | 5 |  |  |  |
| ENGR 2, Graphics   | ENGR 150  | 4 |  |  |  |
| ENGR 4, Engineering Materials  | ENGR 140  | 3 |  |  |  |
| ENGR 6, Circuits with Lab  | ENGR 260  | 4 |  |  |  |
| ENGR 8, Statics  | ENGR 130  | 3 |  |  |  |
| ENGR 11, Manufacturing Processes   |           | 3 |  |  |  |
| MATH 7, Introduction to Differential Equations   | MATH 240  | 4 |  |  |  |
| PHYS 4C, Physics for Scientists and Engineers  | PHYS 215S | 4 |  |  |  |

**Notes:**

1. These degree programs are designed as basic coursework necessary for pursuing a career in the field of civil engineering, computer-software engineering, electrical engineering, and mechanical, aerospace, and manufacturing engineering. Students will be prepared for engineering internship opportunities and transferring to four-year engineering programs.
2. Some of the above courses may have prerequisites. See the catalog or schedule of classes.
3. The *Associate Degree* requires completion of the major (40-43 units) for Civil Engineering; (42 units) for Computer-Software Engineering; (42-43 units) for Electrical Engineering; (39-43 units) for Mechanical, Aerospace, and Manufacturing, AS with a "C" or better grade in each course plus the completion of the General Education requirements for a total of **60 semester units** with a 2.0 or better GPA.
4. Some courses may not have an associated C-ID, please see catalog or counselor for more information.