

# COLLEGE OF ENGINEERING

## Bachelor of Science, Computer Engineering

### Four-Year Academic Map 2023-2024

| YEAR 1 | Semester 1 Fall |                               |   | Semester 2 Spring |                                 |   | Total |    |
|--------|-----------------|-------------------------------|---|-------------------|---------------------------------|---|-------|----|
|        | CHEM 1111       | Fundamentals of Chemistry Lab | 1 | ENGI 1331         | Computing for Engineers         | 3 |       |    |
|        | CHEM 1311       | Fundamentals of Chemistry*    | 3 | ENGL 1302         | First Year Writing II*          | 3 |       |    |
|        | ENGI 1100       | Introduction to Engineering   | 1 | HIST 1302         | The United States Since 1877*   | 3 |       |    |
|        | ENGL 1301       | First Year Writing I*         | 3 | MATH 2414         | Calculus II*                    | 4 |       |    |
|        | HIST 1301       | The United States To 1877*    | 3 | PHYS 2325         | University Physics I*           | 3 |       |    |
|        | MATH 2413       | Calculus I*                   | 4 | PHYS 2125         | University Physics Laboratory I | 1 |       |    |
|        | Semester Hours  |                               |   | 15                | Semester Hours                  |   |       | 17 |

| YEAR 2 | Semester 1 Fall |                                  |   | Semester 2 Spring |                                 |   | Total |    |
|--------|-----------------|----------------------------------|---|-------------------|---------------------------------|---|-------|----|
|        | ECE 2201        | Circuit Analysis I               | 2 | ENGI 2304         | Technical Communications*       | 3 |       |    |
|        | MATH 2415       | Calculus III                     | 4 | ECE 2202          | Circuit Analysis II             | 2 |       |    |
|        | MATH 3321       | Engineering Mathematics          | 3 | ECE 2100          | Circuit Analysis Laboratory     | 1 |       |    |
|        | PHYS 2326       | University Physics II            | 3 | ECE 3331          | Programming Applications in ECE | 3 |       |    |
|        | PHYS 2126       | University Physics Laboratory II | 1 | ECE 3441          | Digital Logic Design            | 4 |       |    |
|        | GOVT 2306       | U.S. & TX Constitution/Politics* | 3 | CORE              | Creative Arts*                  | 3 |       |    |
|        | Semester Hours  |                                  |   | 16                | Semester Hours                  |   |       | 16 |

| YEAR 3 | Semester 1 Fall |                          |   | Semester 2 Spring |                               |   | Total |    |
|--------|-----------------|--------------------------|---|-------------------|-------------------------------|---|-------|----|
|        | COSC 1437       | Intro to Programming     | 4 | COSC 2436         | Programming & Data Structures | 4 |       |    |
|        | ECE 3155        | Electronics Lab          | 1 | ECE 3457          | Digital Electronics           | 4 |       |    |
|        | ECE 3355        | Electronics              | 3 | ECE Elect/Lab     | ECE Elective and Lab          | 4 |       |    |
|        | ECE 3436        | Microprocessors          | 4 | INDE 2333         | Engineering Statistics I      | 3 |       |    |
|        | ECE 3337        | Signal & System Analysis | 3 |                   |                               |   |       |    |
|        | ECE 3317        | Applied EM Waves         | 3 |                   |                               |   |       |    |
|        | Semester Hours  |                          |   | 18                | Semester Hours                |   |       | 15 |

| YEAR 4 | Semester 1 Fall |                                   |   | Semester 2 Spring |                                 |   | Total |     |    |
|--------|-----------------|-----------------------------------|---|-------------------|---------------------------------|---|-------|-----|----|
|        | MATH 3336       | Discrete Mathematics              | 3 | GOVT 2305         | U.S. Government*                | 3 |       |     |    |
|        | ECE 4335        | ECE Design I                      | 3 | ECE 4336          | ECE Design II                   | 3 |       |     |    |
|        | ECE 5367        | Intro to Comp Architecture Design | 3 | CpE Elect/Lab     | Approved CpE Elective and Lab   | 4 |       |     |    |
|        | CpE Elect/Lab   | Approved CpE Elective and Lab     | 4 | COSC 4351         | Fundamentals of Software Engr   | 3 |       |     |    |
|        | ECON 2302       | Principles of Microeconomics *    | 3 | CORE              | Language, Philosophy & Culture* | 3 |       |     |    |
|        | Semester Hours  |                                   |   | 16                | Semester Hours                  |   |       | 16  | 32 |
|        |                 |                                   |   |                   |                                 |   |       | 129 |    |

\*State of Texas Core Curriculum

Students should meet with their academic advisor to formulate their own plan.