

| PROGRAM ARTICULATION DEGREE PLAN  |                                 |  |  |  |            |
|---|---------------------------------|--|--|--|------------|
| <b>Oakton College</b>   | <b>2024-2025</b>                | <b>Southern Illinois University Carbondale</b>                   |  |  |            |
| ASE Associate of Science in Engineering - 69 hrs  |                                 | BS Electrical Engineering Technology (EET) - 120 hrs             |  |  |            |
|   |                                 | <b>UNIVERSITY CORE CURRICULUM (UCC) - Capstone Option 30 hrs</b> |  |  |            |
|   |                                 | <b>Hrs</b>   |  |  | <b>Hrs</b> |
|   |                                 |  | UNIV 101   | Saluki Success   | NA         |
|   |                                 |  | CMST 101   | Intro to Oral Communication  | 3          |
| EGL 101   | Composition I                   | 3  | ENGL 101   | English Composition I  | T          |
| EGL 102   | Composition II                  | 3  | ENGL 102   | English Composition II   | T          |
| MAT 250   | Calculus I                      | 5  | MATH 150   | Calculus I   | T          |
|   | IAI SOCIAL/BEHAVIORAL SCIENCE*  | 3  | SOCIAL SCIENCE                                   | See SIUC Equivalency Transfer Guide                                  | T          |
|   | IAI SOCIAL/BEHAVIORAL SCIENCE   | 3  | SOCIAL SCIENCE                                   | See SIUC Equivalency Transfer Guide                                  | T          |
|   | IAI FINE ARTS/HUMANITIES*       | 3  | HUMANITIES                                       | See SIUC Equivalency Transfer Guide                                  | T          |
|   |                                 |  | HUMANITIES                                       |  | NA         |
| CHM 121   | General College Chemistry I     | 4  | CHEM 200 -and- 201                               | Intro to Chemical Principles w/Lab                                   | T          |
|   |                                 |  | LIFE SCIENCE                                     |  | 3          |
|   |                                 |  | FINE ARTS  |  | 3          |
|   |                                 |  | HUMAN HEALTH                                     |  | NA         |
|   |                                 |  | MULTICULTURAL                                    |  | 3          |
|   |                                 | <b>24</b>  |  |  | <b>12</b>  |
| *Student must choose courses that fulfill both the Global Studies and U.S. Diversity Studies requirements |                                 |  |  |  |            |
| <b>Program Requirements</b>   |                                 | <b>Program Requirements</b>                                      |  |  |            |
| CHM 122   | General College Chemistry II    | 4  | CHEM 210 -and- 211                               | General & Inorganic Chemistry w/Lab                                  | T          |
| CSC 170   | Intro to Numerical Methods      | 2  | ITEC 1XX -or- IMAE 1XX (elective)                | ITEC Tech Elective 100-level -or- IMAE Tech Elective 100-level       | T          |
| CSC 171   | C++ Programming for Engineers   | 1  | EET 1XX -or- ITEC 1XX (elective)                 | EET Tech Elective 100-level -or- ITEC Tech Elective 100-level        | T          |
| ENG 120   | Engineering Graphics            | 3  | ME 102 -or- IMAE 1XX (elective)                  | Computer-Aided Engineering Drawing -or- IMAE Tech Elective 100-level | T          |
| ENG 211   | Analytic Mechanics (Statics)    | 3  | ENGR 250 (elective)                              | Statics  | T          |
| ENG 212   | Analytic Mechanics (Dynamics)   | 3  | ENGR 261 (elective)                              | Dynamics   | T          |
| ENG 220   | Engineering Circuit Analysis    | 4  | ECE 235 -and- 235L                               | Electric Circuits I w/Lab  | T          |
| ENG 250   | Intro to Digital Systems        | 4  | ECE 327 -and- 327L                               | Digital Circuit Design with HDL w/Lab                                | T          |
| MAT 251   | Calculus II                     | 4  | MATH 250   | Calculus II  | T          |
| MAT 252   | Calculus III                    | 4  | MATH 251   | Calculus III   | T          |
| MAT 262   | Ordinary Differential Equations | 3  | MATH 305   | Intro to Differential Equations                                      | T          |
| PHY 221   | General Physics I               | 5  | PHYS 205A -and- 255A                             | University Physics w/Lab   | T          |
| PHY 222   | General Physics II              | 5  | PHYS 205B -and- 255B                             | University Physics w/Lab   | T          |
|   |                                 | <b>45</b>  |  |  |            |
|   |                                 |  | MATH 111   | Precalculus  | 4          |
|   |                                 |  | MATH 282   | Intro to Statistics  | 3          |
|   |                                 |  | MGMT 202   | Business Communications  | 3          |
|   |                                 |  | Select 1 Course:                                 | CS 202 -or- ENGR 222 -or- ECE 222                                    | 2          |
|   |                                 |  | EET 150  | Intro to Electrical Engineering Technology                           | 2          |
|   |                                 |  | EET 238  | Digital System Fundamentals  | 3          |
|   |                                 |  | EET 238L   | Digital System Fundamentals Lab                                      | 1          |
|   |                                 |  | EET 245  | Intro Circuit Theory & Applications                                  | 3          |
|   |                                 |  | EET 245L   | Intro Circuit Theory & Applications Lab                              | 1          |
|   |                                 |  | EET 304A   | AC/DC Circuit Theory & Application                                   | 3          |
|   |                                 |  | EET 304AL  | AC/DC Circuit Theory & Application Lab                               | 1          |
|   |                                 |  | EET 304B   | Network Theory & Application   | 3          |
|   |                                 |  | EET 304BL  | Network Theory & Application Lab                                     | 1          |
|   |                                 |  | EET 332A   | DC Motors, Generators & Energy Conversion Devices                    | 3          |
|   |                                 |  | EET 332AL  | DC Motors, Generators & Energy Conversion Devices Lab                | 1          |
|   |                                 |  | EET 332B   | AC Electric Machines & Power Systems                                 | 3          |
|   |                                 |  | EET 332BL  | AC Electric Machines & Power Systems Lab                             | 1          |
|   |                                 |  | EET 403A   | Electronic Circuit Analysis  | 3          |
|   |                                 |  | EET 403AL  | Electronic Circuit Analysis Lab                                      | 1          |
|   |                                 |  | EET 437A   | Telecommunication Systems Fundamentals                               | 3          |
|   |                                 |  | EET 437AL  | Telecommunication Systems Fundamentals Lab                           | 1          |
|   |                                 |  | EET 437B   | Data & Computer Communication  | 3          |
|   |                                 |  | EET 437BL  | Data & Computer Communication Lab                                    | 1          |
|   |                                 |  | EET 438A   | Automatic Control Systems Technology                                 | 3          |
|   |                                 |  | EET 438AL  | Automatic Control Systems Technology Lab                             | 1          |
|   |                                 |  | EET 438B   | Sequential Digital Control & Data Acquisition                        | 3          |
|   |                                 |  | EET 438BL  | Sequential Digital Control & Data Acquisition Lab                    | 1          |
|   |                                 |  | EET 439  | Microcontroller Application & Design                                 | 3          |
|   |                                 |  | EET 439L   | Microcontroller Application & Design Lab                             | 1          |
|   |                                 |  | EET 440  | Embedded Systems Design  | 3          |
|   |                                 |  | EET 440L   | Embedded Systems Design Lab  | 1          |
|   |                                 |  | EET 495A   | Electrical Engineering Technology Senior Design I                    | 1          |
|   |                                 |  | EET 495B   | Electrical Engineering Technology Senior Design II                   | 1          |
|   |                                 |  |  |  | <b>68</b>  |
| <b>Total semester hrs completed w/ASE degree:</b>   |                                 | <b>69</b>  | <b>Total semester hrs completed w/BS degree:</b> |  | <b>80</b>  |
|   |                                 |  | <b>Total hours to BS degree:</b>                 |  | <b>149</b> |