

| PROGRAM ARTICULATION DEGREE PLAN | | | | | |
|--|---|------------------|---|---|------------|
| Shawnee Community College | | 2022-2023 | Southern Illinois University Carbondale | | |
| Associate of Science - 64 hrs | | | BS Computer Engineering (CEGR) - 126 hrs | | |
| | | | University Core Curriculum (UCC)* | | |
| | | Hrs | | | Hrs |
| | | | UNIV 101 | Saluki Success | NA |
| ENG 111 | English Composition I | 3 | ENGL 101 | English Composition I | T |
| ENG 112 | English Composition II | 3 | ENGL 102 | English Composition II | T |
| SPC 111 | Speech | 3 | CMST 101 | Intro to Oral Communication | T |
| MAT 209 | Calculus I | 5 | MATH 150 (Required for BS degree) | Calculus I | T |
| SOCIAL SCIENCE | (See SIUC Equivalency Guide) | 3 | SOCIAL SCIENCE | (See SIUC Equivalency Guide) | T |
| SOCIAL SCIENCE | (See SIUC Equivalency Guide) | 3 | SOCIAL SCIENCE | (See SIUC Equivalency Guide) | T |
| HUMANITIES | (See SIUC Equivalency Guide) | 3 | HUMANITIES | (See SIUC Equivalency Guide) | T |
| | | | HUMANITIES | | NA |
| CHE 114 | Inorganic Chemistry I w/lab | 5 | CHEM 200/201 (Fulfills BS degree requirement) | Intro to Chemical Principles/Lab | T |
| | | | LIFE SCIENCE, GRP II | (Students take 2 Physics courses) | NA |
| FINE ARTS | (See SIUC Equivalency Guide) | 3 | FINE ARTS | | T |
| BIOL 115 | Human Biology | 4 | BIOL 202 (Required for BS degree) | Human Genetics and Human Health | T |
| | | | MULTICULTURAL | (See SIUC Equivalency Guide) | NA |
| | | 35 | | | 0 |
| | | | *An AS degree from an accredited Illinois institution satisfies UCC requirements | | |
| Program Requirements | | | Program Requirements | | |
| CHE 115 | Inorganic, Organic & Biochemistry w/lab | 5 | CHEM 210/211 (Fulfills BS degree requirement) | General and Inorganic Chemistry/Lab | T |
| MAT 211 | Calculus II | 5 | MATH 250 | Calculus II | T |
| MAT 212 | Calculus III | 5 | MATH 251 | Calculus III | T |
| MAT 213 | Ordinary Differential Equations I | 3 | MATH 305 | Intro to Differential Equations | T |
| PHY 216 | University Physics I | 4 | PHYS 205/255A | University Physics/Lab | T |
| PHY 217 | University Physics II | 4 | PHYS 205/255B | University Physics/Lab | T |
| Electives | Choose from transfer courses | 3 | | | |
| | | 29 | | | |
| | | | ECE 222 | Intro to Digital Computation | 3 |
| | | | ECE 235/235L | Electric Circuits/Lab | 4 |
| | | | ECE 296/296L | Software Tools for Robotics/Lab | 4 |
| | | | ECE 315 | Math Methods in ECE | 4 |
| | | | ECE 321/321L | Intro Software Engineering/Lab | 4 |
| | | | ECE 327/327L | Digital Circuit Design with HDL/Lab | 4 |
| | | | ECE 329/329L | Computer Organization & Design/Lab | 4 |
| | | | ECE 345/345L | Electronics/Lab | 4 |
| | | | ECE 355/355L | Signals & Systems/Lab | 4 |
| | | | ECE 495C | ECE Senior Design I | 3 |
| | | | ECE 495D | ECE Senior Design II | 3 |
| | | | ECE Electives | At least 20 hours from the following list: ECE 412-432, two approved CS courses from CS 3XX or 4XX level (except CS 300, 393, or 493) | 23 |
| | | | | | 64 |
| Total semester hrs completed w/ AS degree | | 64 | Total semester hrs completed with BS degree: | | 67 |
| | | | Total semester hrs to BS degree: | | 131 |