

| PROGRAM ARTICULATION DEGREE PLAN | | | | | |
|--|------------------------------------|---|--|--|------------|
| Waubonsee Community College 2021-2022 | | Southern Illinois University Carbondale | | | |
| Associate in Engineering Science (AES) - 60 hrs | | BS Civil Engineering (CE) - 127 hrs | | | |
| | | University Core Curriculum (UCC) - Capstone Option 30 hrs | | | |
| | | Hrs | | | Hrs |
| | | | UNIV 101 | Saluki Success | NA |
| ENG 101 | First-Year Composition I | 3 | ENGL 101 | English Composition I | T |
| ENG 102 | First-Year Composition II | 3 | ENGL 102 | English Composition II | T |
| COM 100 | Fund of Speech Communication | 3 | CMST 101 | Intro:Oral Communication | T |
| MTH 131 | Calculus & Analytical Geometry I | 4 | MATH 150 (Required for BS degree) | Calculus I | T |
| ECN 201 | Principles of Microeconomics | 3 | ECON 240 (Required for BS degree) | Microeconomics | T |
| | IAI Social Science | 3 | SOCIAL SCIENCE | (See SIUC Equivalency Guide) | T |
| | *IAI Humanities | 3 | HUMANITIES | | T |
| | | | HUMANITIES | | NA |
| CHEM 121 | General Chemistry | 4 | CHEM 200/201 (Required for BS degree) | Intro to Chemical Principles/Lab | T |
| PHY 221 | General Physics I | 5 | PHYS 205/255A (Required for BS degree) | University Physics/Lab | T |
| | *IAI Fine Arts | 3 | FINE ARTS | | T |
| | | | BIOL 202 (Required for BS degree) | Human Genetics and Human Health | 2 |
| | | | MULTICULTURAL | | 3 |
| | | 34 | | | 5 |
| | | | | | |
| Program Requirements | | Program Requirements | | | |
| CIS 115 | Introduction to Programming | 3 | Any course not articulated will be used to satisfy general electives | | |
| CHEM 122 | Chemistry & Qualitative Analysis | 4 | CHEM 210/211 (Required for BS degree) | General & Inorganic Chemistry/Lab | T |
| EGR 220 | Analytical Mechanics - Statics | 3 | ENGR 250 (Required for BS degree) | Statics | T |
| EGR 230 | Analytical Mechanics - Dynamics | 3 | ENGR 261 (Required for BS degree) | Dynamics | T |
| MTH 132 | Calculus & Analytical Geometry II | 4 | MATH 250 (Required for BS degree) | Calculus II | T |
| MTH 233 | Calculus & Analytical Geometry III | 4 | MATH 251 (Required for BS degree) | Calculus III | T |
| MTH 240 | Differential Equations | 3 | MATH 305 (Required for BS degree) | Intro to Ordinary Differential Equations I | T |
| PHY 222 | General Physics II | 5 | PHYS 205/255B (Required for BS degree) | University Physics/Lab | T |
| | | 29 | | | |
| | | | CE 251 | Probability & Statistics | 1 |
| | | | CE 263 | Basic Surveying | 3 |
| | | | CE 301 | Intro to Sustainability | 2 |
| | | | CE 310/310L | Environmental Engineering/Lab | 4 |
| | | | CE 320/320L | Soil Mechanics/Lab | 4 |
| | | | CE 330 | Civil Engineering Materials | 3 |
| | | | CE 340 | Structures | 3 |
| | | | CE 418 | Water & Wastewater Treatment | 3 |
| | | | CE 421 | Foundation Design | 3 |
| | | | CE 442 | Structural Steel Design | 3 |
| | | | CE 444 | Reinforced Concrete Design | 3 |
| | | | CE 474 | Water Resources Engineering | 3 |
| | | | CE 495A | Civil Engineering Design | 3 |
| | | | CE 495B | Civil Engineering Design | 3 |
| | | | ENGR 350A | Mechanics of Materials | 3 |
| | | | ENGR 351 | Numerical Methods | 3 |
| | | | ENGR 370A | Fluid Mechanics | 3 |
| | | | CE Electives | Choose 12 hrs from CE 331 and CE 400-level courses | 12 |
| | | | | | 62 |
| Total semester hrs completed with AES degree: | | 63 | Total semester hrs completed with BS degree: | | 67 |
| | | | Total to BS degree: | | 130 |