

| PROGRAM ARTICULATION DEGREE PLAN | | | | |
|---|---|------------|--|---|
| City Colleges of Chicago 2024-2025 | | | Southern Illinois University Carbondale | |
| Associate in Engineering Science, Biomedical Engineering - 64 hrs | | | BS Biomedical Engineering (BME) - 126 hrs | |
| | | | University Core Curriculum (UCC) Capstone Option - 30 hrs | |
| | | Hrs | | Hrs |
| | | | UNIV 101 | Saluki Success |
| | | | CMST 101 | Intro to Oral Communication |
| ENGLISH 101 | Composition | 3 | ENGL 101 | English Composition I |
| ENGLISH 102 | Composition II | 3 | ENGL 102 | English Composition II |
| MATH 207 | Calculus & Analytic Geometry I | 5 | MATH 150 | Calculus I |
| | Social & Behavioral Sciences | 3 | SOCIAL SCIENCE | See SIUC Transfer Equivalency Guide |
| | | | SOCIAL SCIENCE | |
| | Humanities | 3 | HUMANITIES | See SIUC Transfer Equivalency Guide |
| | | | HUMANITIES | |
| CHEM 201 | General Chemistry I | 5 | CHEM 200 -and- 201 | Intro to Chemical Principles w/Lab |
| BIOLOGY 115 | Human Biology | 4 | SC2 1XX | UCC Life Science Sub 100-level |
| | | | FINE ARTS | |
| | | | PHSL 201 | Human Physiology |
| | | | MULTICULTURAL | |
| | | 26 | | 15 |
| Program Requirements | | | Program Requirements | |
| Pathway Electives | Select from list of approved courses | 2 | Any unarticulated courses will be used to satisfy general elective credit | |
| CHEM 203 | General Chemistry II | 5 | CHEM 210 -and- 211 (elective) | General & Inorganic Chemistry w/Lab |
| CIS 142 | C++ Object Oriented Programming I | 3 | ECE 222 | Intro to Digital Computation |
| ENGR 215 | Electrical Circuits Analysis | 5 | ECE 235 -and- 235L | Electric Circuits I w/Lab |
| MATH 208 | Calculus & Analytic Geometry II | 5 | MATH 250 | Calculus II |
| MATH 209 | Calculus & Analytic Geometry III | 5 | MATH 251 | Calculus III |
| MATH 210 | Differential Equations | 3 | MATH 305 | Intro to Differential Equations |
| PHYSICS 235 | Engineering Physics I: Mechanics & Wave Motion | 5 | PHYS 205A -and- 255A | University Physics w/Lab |
| PHYSICS 236 | Engineering Physics II: Electricity & Magnetism | 5 | PHYS 205B -and- 255B | University Physics w/Lab |
| | | 38 | | |
| | | | BME 101 | Intro to Biomedical Engineering |
| | | | BME 296 -and- 296L | Intro to Microcontrollers & Robotics w/Lab |
| | | | BME 336 | Biomechanics |
| | | | BME 337 | Bioelectricity |
| | | | BME 338 -and- 338L | Biomedical Instruments w/Lab |
| | | | BME 351 | Probability & Statistics |
| | | | BME 355L | BME Signals & Systems Lab |
| | | | BME 438 | Medical Instrumentation: Application & Design |
| | | | BME 495A | BME Senior Design I |
| | | | BME 495B | BME Senior Design II |
| | | | ECE 355 | Signals & Systems |
| | | | Technical Electives | At least 9 hours from: BME 341-485. Remaining credit hours can be from 300/400-level courses offered by School of ECBE. |
| | | | | 60 |
| Total semester hrs completed w/AES degree: | | 64 | Total semester hrs completed w/BS degree: | 75 |
| | | | Total hrs to BS degree: | 139 |
| <i>Degree Plan created on 7/8/24 by SG</i> | | | | |