

| PROGRAM ARTICULATION DEGREE PLAN | | | |
|---|---|---|---|
| College of Lake County 2021-2022 | | Southern Illinois University Carbondale | |
| AES Engineering and Computer Science - 65-66 hrs | | BS Industrial Management and Applied Engineering (IMAE) - 120 hrs | |
| | | University Core Curriculum (UCC) Capstone Option - 30 hrs | |
| | | Hrs | Hrs |
| | | UNIV 101 | Saluki Success |
| | | CMST 101 | Intro to Oral Communication |
| | | ENGL 101 | English Composition I |
| ENG 121 | English Composition I | 3 | T |
| ENG 122 -or- ENG 126 | English Composition II -or- Advanced Composition: Scientific and Technical Communications | 3 | T |
| MTH 145 | Calculus and Analytic Geometry | 5 | T |
| PSY 121 | Intro to Psychology | 3 | T |
| ECO 222 | Principles of Microeconomics | 3 | T |
| PHI 125 | Introduction to Ethics | 3 | T |
| | | | NA |
| PHY 123 | Physics for Science and Engineering I | 5 | T |
| | | PHYS 205/255A | University Physics/Lab |
| | | LIFE SCIENCE, GRP II | Students take 2 physics courses |
| | | | NA |
| | | FINE ARTS | 3 |
| | | HUMAN HEALTH | NA |
| | | MULTICULTURAL | 3 |
| | | 25 | 9 |
| Program Requirements | | Program Requirements | |
| CLC 120 | College Success Seminar | 2 | The AES degree in Engineering and Computer Science as articulated with the recommended technical electives fulfills the 22 hrs of technical electives and the following course requirements for the BS degree in Industrial Management & Applied Engineering. |
| CHM 121 | General Chemistry I | 5 | CHEM 200/201 |
| EGR 121 | Engineering Graphics | 3 | ME 102 |
| EGR 125 | Engineering Statics | 3 | ENGR 250 |
| EGR 225 | Engineering Dynamics | 3 | ENGR 261 |
| EGR 260 | Introduction to Circuit Analysis | 4 | ECE 235 |
| MTH 146 | Calculus and Analytic Geometry II | 4 | MATH 250 |
| MTH 227 | Differential Equations | 3 | MATH 305 |
| MTH 246 | Calculus and Analytic Geometry III | 5 | MATH 251 |
| MCS 140 -or- MCS 141 | Computer Programming I -or- Computer Science I | 3-4 | CS 202 |
| PHY 124 | Physics for Science and Engineering II | 5 | PHYS 205/255B |
| | | 40-41 | 3 |
| | | IMAE 110 | Geometric Dimensioning & Tolerancing |
| | | IMAE 208 | Fundamentals of Manufacturing Processes |
| | | IMAE 305 | Industrial Safety |
| | | IMAE 340 -or- PSYC 323** | Intro to Supervision -or- Organizational Psych |
| | | IMAE 375 | Production and Inventory Management |
| | | IMAE 390 | Cost Estimating |
| | | IMAE 392 | Facilities Planning & Workplace Design |
| | | IMAE 442 | Fundamentals of Leadership |
| | | IMAE 445 | Computer Integrated Manufacturing |
| | | IMAE 450 | Project Management |
| | | IMAE 465 | Lean Manufacturing |
| | | IMAE 470A | Six Sigma Green Belt I |
| | | IMAE 470B | Six Sigma Green Belt II |
| | | IMAE 476 | Supply Chain Management |
| | | IMAE Electives | (Must be at 300/400 level) |
| | | | 9 |
| | | | 51 |
| Total semester hrs completed w/ AAS degree | | 65-66 | Total semester hrs completed w/ BS degree |
| | | | 60 |
| | | Total hours to BS degree: | |
| | | 124-125 | |
| Degree plan updated by SW 12/10/2021 | | **PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite | |