

| PROGRAM ARTICULATION DEGREE PLAN | | | | |
|---|--|---|---|--|
| Lewis & Clark Community College 2021-2022 | | Southern Illinois University Carbondale | | |
| AAS Process Operations Technology - Bioprocess - 61 hours | | BS Industrial Management and Applied Engineering (IMAE) - 120 hrs | | |
| | | University Core Curriculum (UCC) Capstone Option - 30 hrs | | |
| | | Hrs | Hrs | |
| SPCH 131 -or- SPCH 145 | Public Speaking -or- Public and Private Communication | 3 | UNIV 101 Saluki Success | |
| ENGL 131 | First-Year English I | 3 | CMST 101 Intro to Oral Communication | |
| | | | ENGL 101 English Composition I | |
| MATH 131* | College Algebra | 4 | ENGL 102 English Composition II | |
| ECON 151 -or- ECON 152 | Principles of Macroeconomics -or- Principles of Microeconomics | 3 | MATH 108 (Required for BS degree) College Algebra | |
| | | | ECON 241 -or- ECON 240 Intro to Macroeconomics -or- Intro to Microeconomics | |
| | | | SOCIAL SCIENCE | |
| | HUMANITIES/FINE ARTS | 3 | HUMANITIES (See SIUC Equivalency Guide) | |
| | | | HUMANITIES | |
| CHEM 130 -or- CHEM 131 | Fund of Gen, Organic & Biochem -or- Intro to Chemistry I | 4 | SC1 1XX Science UCC Sub 100-level | |
| | | | LIFE SCIENCE, GRP II Students take 2 physics courses | |
| | | | FINE ARTS | |
| | | | HUMAN HEALTH | |
| | | | MULTICULTURAL | |
| *Recommended to fulfill SIUC BS degree requirements | | | | |
| | | 20 | 9 | |
| Program Requirements | | Program Requirements | | |
| FIRE 110 | Fire Crew Rookie School | 1 | The AAS degree in Process Operations Technology - Bioprocess as articulated fulfills the 22 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering. | |
| ITEC 131 | Computer Technology I | 4 | | |
| PRCS 111 | Introduction to Biofuels | 3 | | |
| PRCS 121 | Ethanol Production | 3 | | |
| PRCS 131 | Introduction to Process Technology | 3 | | |
| PRCS 133 | Process Technology Equipment I | 2 | | |
| PRCS 134 | Process Technology Equipment II | 2 | | |
| PRCS 151 | Process Instrumentation Control I | 3 | | |
| PRCS 252 | Process Instrumentation Control II | 3 | | |
| PRCS 255 | Process Technology Systems | 3 | | |
| PRCS 256 | Process Technology Operations | 3 | | |
| PRCS 265 | Process Troubleshooting | 4 | | |
| PRCS 271 | Process Technology Internship | 1 | | |
| BUSN 141 | Business and the Legal Environment | 3 | | |
| PRCS 135 | Safety, Health and Environment | 3 | | |
| | | 41 | | |
| | | | | IST 208 Applied Law for Tech Careers |
| | | | | IMAE 305 (Required for BS degree) Industrial Safety |
| | | | PHYS 203/253A College Physics/Lab | |
| | | | PHYS 203/253B College Physics/Lab | |
| | | | IMAE 110 Geometric Dimensioning and Tolerancing | |
| | | | IMAE 208 Manufacturing Processes | |
| | | | IMAE 307 -or- MATH 140 Applied Calc for Tech -or- Short Course in Calc | |
| | | | IMAE 340 -or- PSYC 323** Intro to Supervision -or- Organizational Psychology | |
| | | | IMAE 375 Production & Inventory Mgmt | |
| | | | IMAE 390 Cost Estimating | |
| | | | IMAE 392 Facilities Planning & Workplace Design | |
| | | | IMAE 442 Fundamentals of Leadership | |
| | | | IMAE 445 Computer-Aided 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 Design & Strategy | |
| | | | IMAE Elective (Must be at 300/400 level) | |
| | | | 6 | |
| | | | 56-57 | |
| Total semester hrs completed w/ AAS degree | | 61 | Total semester hrs completed w/ BS degree | |
| | | | 65-66 | |
| | | Total hours to BS degree: | | |
| | | | 126-127 | |
| Degree plan created by SW 1/3/2022 | | **PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite | | |