

| PROGRAM ARTICULATION DEGREE PLAN | | | | | |
|--|--|--|--|--|----------------|
| Lewis & Clark Community College 2021-2022 | | Southern Illinois University Carbondale | | | |
| AAS Process Operations Technology - Biochemical - 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 | NA |
| ENGL 131 | First-Year English I | 3 | CMST 101 | Intro to Oral Communication | T |
| | | | ENGL 101 | English Composition I | T |
| MATH 131* | College Algebra | 4 | ENGL 102 | English Composition II | NA |
| ECON 151 -or- ECON 152 | Principles of Macroeconomics -or- Principles of Microeconomics | 3 | MATH 108 (Required for BS degree) | College Algebra | T |
| | | | ECON 241 -or- ECON 240 | Intro to Macroeconomics -or- Intro to Microeconomics | T |
| | | | SOCIAL SCIENCE | | 3 |
| | HUMANITIES/FINE ARTS | 3 | HUMANITIES | (See SIUC Equivalency Guide) | T |
| | | | HUMANITIES | | NA |
| CHEM 130 -or- CHEM 131 | Fund of Gen, Organic & Biochem -or- Intro to Chemistry I | 4 | SC1 1XX | Science UCC Sub 100-level | T |
| | | | LIFE SCIENCE, GRP II | Students take 2 physics courses | NA |
| | | | FINE ARTS | | 3 |
| | | | HUMAN HEALTH | | NA |
| | | | MULTICULTURAL | | 3 |
| *Recommended to fulfill SIUC BS degree requirements | | | | | 9 |
| | | 20 | | | |
| Program Requirements | | Program Requirements | | | |
| CHEM 132 | Introduction to Chemistry II | 4 | The AAS degree in Process Operations Technology - Biochem as articulated fulfills the 22 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering. | | |
| FIRE 110 | Fire Crew Rookie School | 1 | | | |
| ITEC 131 | Computer Technology I | 4 | | | |
| 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 231 | Quality Control | 2 | | | |
| 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 | T |
| | | | IMAE 305 (Required for BS degree) | Industrial Safety | T |
| | | | PHYS 203/253A | College Physics/Lab | 4 |
| | | | PHYS 203/253B | College Physics/Lab | 4 |
| | | | IMAE 110 | Geometric Dimensioning and Tolerancing | 3 |
| | | | IMAE 208 | Manufacturing Processes | 3 |
| | | | IMAE 307 -or- MATH 140 | Applied Calc for Tech -or- Short Course in Calc | 3-4 |
| | | | IMAE 340 -or- PSYC 323** | Intro to Supervision -or- Organizational Psychology | 3 |
| | | | IMAE 375 | Production & Inventory Mgmt | 3 |
| | | | IMAE 390 | Cost Estimating | 3 |
| | | | IMAE 392 | Facilities Planning & Workplace Design | 3 |
| | | | IMAE 442 | Fundamentals of Leadership | 3 |
| | | | IMAE 445 | Computer-Aided Manufacturing | 3 |
| | | | IMAE 450 | Project Management | 3 |
| | | | IMAE 465 | Lean Manufacturing | 3 |
| | | | IMAE 470A | Six Sigma Green Belt I | 3 |
| | | | IMAE 470B | Six Sigma Green Belt II | 3 |
| | | | IMAE 476 | Supply Chain Design & Strategy | 3 |
| | | | 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 | | | |