

| PROGRAM ARTICULATION DEGREE PLAN | | | | | | | | |
|---|---------------------------------------|------------------|--|---|------------|----------------------|--------------------------------------|---|
| Lake Land College | | 2024-2025 | | Southern Illinois University Carbondale | | | | |
| AAS Applied Engineering Technology - 60 hrs | | | | BS Industrial Management & Applied Engineering (IMAE) - 120 hrs | | | | |
| | | | | University Core Curriculum (UCC) Capstone Option - 30 hrs* | | | | |
| | | Hrs | | Hrs | | | | |
| COM 111 | Intro to Speech Communication | 3 | UNIV 101 | Saluki Success | NA | | | |
| ENG 120 | Composition I | 3 | CMST 101 | Intro to Oral Communication | T | | | |
| | | | ENGL 101 | English Composition I | T | | | |
| | | | ENGL 102 | English Composition II | NA | | | |
| MAT 130 | College Algebra | 3 | MATH 108 | College Algebra | T | | | |
| | IAI Social Science | 3 | SOCIAL SCIENCE | See <i>SIUC Transfer Equivalency Guide</i> | T | | | |
| | | | SOCIAL SCIENCE | | 3 | | | |
| | | | HUMANITIES | | 3 | | | |
| | | | HUMANITIES | | NA | | | |
| | | | PHYS 203A -and- 253A | College Physics w/Lab | 4 | | | |
| | | | LIFE SCIENCE | | 3 | | | |
| | | | FINE ARTS | | 3 | | | |
| | | | HUMAN HEALTH | | NA | | | |
| | | | MULTICULTURAL | | 3 | | | |
| | | 12 | | | 19 | | | |
| Program Requirements | | | | Program Requirements | | | | |
| APT 042 | Applied Mathematics II | 2 | <p>The AAS degree in Applied Engineering Technology as articulated fulfills the 15 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE).</p> | | | | | |
| APT 043 | Applied Mathematics III | 2 | | | | | | |
| APT 050 | Electrical Principles/Practice | 4 | | | | | | |
| APT 051 | Solid State Devices & Applications | 4 | | | | | | |
| CAD 060 | 3D Solid Modeling | 3 | | | | | | |
| EET 048 | Digital Circuits | 3 | | | | | | |
| EET 056 | Electronic Circuit Design/Fabrication | 3 | | | | | | |
| EET 057 | Computer Systems | 3 | | | | | | |
| EET 075 | HMI-Human Machine Interface | 2 | | | | | | |
| EET 076 | Digital Logic | 3 | | | | | | |
| EET 081 | Physical Computing W/Rasp Pi | 3 | | | | | | |
| EET 085 | STEM Projects | 2 | | | | | | |
| EET 086 | Prog Logic Controllers I | 2 | | | | | | |
| IND 044 | Fluid Power | 3 | | | | | | |
| MET 084 | Technical Mechanisms | 3 | | | | | | |
| Career Electives | Select from list of approved courses | 4 | | | | | | |
| CAD 056 | CAD I | 2 | | | | ME 102 (elective) | Computer-Aided Engineering Drawing | T |
| | | 48 | | | | | | |
| | | | | | | PHYS 203B -and- 253B | College Physics w/Lab | 4 |
| | | | | | | IMAE 110 | Geometric Dimensioning & Tolerancing | 3 |
| | | | IMAE 208 | Fundamentals of Manufacturing Processes | 3 | | | |
| | | | IMAE 305 | Industrial Safety | 3 | | | |
| | | | IMAE 307 | Applied Calc for Tech | 3 | | | |
| | | | IMAE 340 | Intro to Supervision | 3 | | | |
| | | | IMAE 375 | Production & Inventory Management | 3 | | | |
| | | | IMAE 390 | Cost Estimating | 3 | | | |
| | | | IMAE 392 | Facilities Planning & Workplace Design | 3 | | | |
| | | | IMAE 442 | Fundamentals of Leadership | 3 | | | |
| | | | IMAE 445 | Computer Integrated 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 Management | 3 | | | |
| | | | IMAE Elective | 300/400 level | 3 | | | |
| | | | | | 52 | | | |
| Total semester hrs completed w/AAS degree: | | 60 | Total semester hrs completed w/BS degree: | | 71 | | | |
| | | | Total semester hrs to BS degree: | | 131 | | | |
| <i>Degree plan updated on 5/16/24 by SG</i> | | | | | | | | |