

| PROGRAM ARTICULATION DEGREE PLAN | | | | | |
|---|----------------------------------|--|---|---|------------|
| Danville Area Community College 2020-2021 | | Southern Illinois University Carbondale | | | |
| AAS Electronic Technology - 67 hrs | | BS Industrial Management & Applied Engineering (IMAE) - 120 hrs | | | |
| | | University Core Curriculum (UCC) Capstone Option - 30 hrs | | | |
| | | Hrs | | | Hrs |
| | | | UNIV 101 | Saluki Success | NA |
| SPCH 101 | Oral Communication | 3 | CMST 101 | Intro to Oral Communication | T |
| ENGL 101 | Rhetoric & Composition I | 3 | ENGL 101 | English Composition I | T |
| | | | ENGL 102 | English Composition II | NA |
| | | | MATH 108 | College Algebra | 3 |
| | Social Science Elective | 3 | SOCIAL SCIENCE | See SIUC Transfer Equivalency Guide | T |
| | | | SOCIAL SCIENCE | | 3 |
| | Humanities Elective | 3 | HUMANITIES | See SIUC Transfer Equivalency Guide | T |
| | | | 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 | | | |
| ELEC 165 | Intro to AC Circuits | 3 | The AAS in Electronic Technology as articulated fulfills the 10 hours of technical electives required for the BS in Industrial Management & Applied Engineering. | | |
| ELEC 167 | Electronic Circuits I | 4 | | | |
| ELEC 168 | Mechatronics II | 4 | | | |
| ELEC 175 | PC Applications in Electronics | 2 | | | |
| ELEC 220 | Opto-Electronics | 4 | | | |
| ELEC 250 | Mechatronics IV | 4 | | | |
| ELEC 269 | Mechatronics III | 3 | | | |
| ELEC 275 | Industrial Automation | 5 | | | |
| ELEC 276 | Advanced Automation Techniques | 5 | | | |
| ELEC 277 | Siemens Programmable Controllers | 3 | | | |
| INFO 245 | Employment Seminar | 1 | | | |
| MATT 133 | Technical Math I | 4 | | | |
| ELEC 160 | Intro to Electricity-Electronics | 5 | | | |
| ELEC 273 | Digital Electronics | 4 | EET 238 (elective) | Digital System Fundamentals | T |
| ELEC 274 | Digital Electronics II | 4 | EET 439 (elective) | Microcontroller Application & Design | T |
| | | 55 | | | |
| | | | PHYS 203B -and- 253B | College Physics/Lab | 4 |
| | | | IMAE 110 | Geometric Dimensioning & Tolerancing | 3 |
| | | | IMAE 208 | Fundamentals of Manufacturing Processes | 3 |
| | | | IMAE 305 | Industrial Safety | 3 |
| | | | IMAE 307 -or- MATH 140 | Applied Calculus for Technology -or- Short Course in Calculus | 3 |
| | | | IMAE 340 -or- PSYC 323 | Intro to Supervision -or- Organizational Psychology | 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 Electives | 300/400 level | 3 |
| | | | | | 52 |
| Total semester hrs completed w/AAS degree: | | 67 | Total semester hrs completed w/BS degree: | | 71 |
| <i>Degree Plan updated on 10/7/2020 by SG</i> | | | Total hours to BS degree: | | 138 |