# PROGRAM ARTICULATION DEGREE PLAN

**Prairie State College  2018-2019**  
**Southern Illinois University Carbondale**  
**BS Industrial Management and Applied Engineering (IMAE) - 120 hrs**

## UNIVERSITY CORE CURRICULUM (UCC) CAPSTONE OPTION - 30 hrs

<table>
<thead>
<tr>
<th>Hrs</th>
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<tbody>
<tr>
<td>UNIV 101</td>
<td>Saluki Success</td>
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<tr>
<td>ENGL 101</td>
<td>English Composition I</td>
</tr>
<tr>
<td>ENSL 102</td>
<td>English Composition II</td>
</tr>
<tr>
<td>COMM 101</td>
<td>Principles of Communication</td>
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<tr>
<td>MATH 108 (Required for BS degree)</td>
<td>College Algebra</td>
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<tr>
<td>SOCIAL SCIENCE</td>
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<tr>
<td>HUMANITIES</td>
<td>HUMANITIES</td>
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<tr>
<td>PHYSI 120</td>
<td>College Physics I</td>
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<tr>
<td>PHYS 203A/253A (Required for BS degree)</td>
<td>College Physics w/ Lab</td>
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<tr>
<td>LIFE SCIENCE, GRP II</td>
<td>FINE ARTS</td>
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<tr>
<td>HUMAN HEALTH</td>
<td>MULTICULTURAL</td>
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*Recommended to fulfill SIUC BS degree requirements*

## Program Requirements

### CADMD 141
- Technical Drafting

### CADMD 243
- Introduction to AutoCAD

### MATH 157*
- Calculus for Business and Social Science

### MT 101
- Machining Basics – Measurement, Materials & Safety

### MT 102
- Machining Job Planning, Benchwork & Layout

### MT 105
- Metal Working Processes III

### MT 210
- CNC Milling Level I

### MT 211
- CNC Turning Level I

### MT 212
- Introduction to Robotics

### MT 214
- CAD/CAM Systems

### MT 215
- Manufacturing Systems

### PHYSI 130
- College Physics II

### Electives
- Choose 3 hours from CADMD 244, HYDR 101, WELD 215

*Recommended elective to fulfill SIUC BS degree requirements*

### IMAE 110
- Geometric Dimensioning & Tolerancing

### IMAE 208
- Fundamentals of Manufacturing Processes

### IMAE 305
- Industrial Safety

### IMAE 340-or-PSYC 323*
- Introduction to Supervision -or- Organizational Psychology

### IMAE 376
- Supply Chain Operations & Logistics

### 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 Electives
- 300/400 level (Required to meet 42 hr requirement)

*PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite*

## Total semester hrs completed w/ AAS degree

62

## Total semester hrs completed w/ BS degree

60

## Total hours to BS degree:

122

*PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite*