### A.A.S. PROGRAM OVERVIEW

**Engineering, Math and Physical Sciences Division, Room T302, (847) 543-2044**

This program prepares students for employment and advancement in Computer Aided Design (CAD). CAD Drafters work under the supervision of an engineer or designer creating drawings. With additional education and experience the graduate may advance to designer, checker, or supervisor. Drawings are produced using a variety of CAD/CAM software. Students may select a program from the following options: Mechanical, and Graphics Animation and Presentation

### CAD DRAFTING TECHNOLOGY: MECHANICAL OPTION

**Degree:** Associate in Applied Science, CAD Drafting Technology: Mechanical Option Plan 24DC

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

#### SUMMER

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CAD 111 *</td>
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#### FIRST SEMESTER

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<tr>
<td>ART 124</td>
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<td>CAD 110</td>
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<td>CAD 117</td>
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<td>CAD 170</td>
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<td>CMM 111</td>
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<td>CMM 121</td>
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#### SECOND SEMESTER

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<td>ENG 121</td>
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<td>MTH 115</td>
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<td>CAD 171</td>
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<td>MIT 112</td>
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<td>CAD 176</td>
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<td>CAD 211 ***#</td>
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#### SUMMER

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<td>MET 214 *#</td>
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### THIRD SEMESTER

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<td>ECO 221</td>
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<td>PSC 122</td>
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<td>CAD 270 ***#</td>
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<td>CAD 271 ***#</td>
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<td>CNC 218</td>
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### FOURTH SEMESTER

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<tr>
<td>MET 111</td>
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<tr>
<td>CAD 217 ***#</td>
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**Total Hours for A.A.S. Degree**: 61

### TYPICAL JOBS

- Architectural Drafter
- Engineering Technician
- Civil Designer
- Mechanical Designer
- Mechanical Drafter
- Product Designer/Drafter

### GETTING STARTED

For steps on how to apply and register, visit [www.clcillinois.edu/admission](http://www.clcillinois.edu/admission).
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| MET 112 | Basic Metallurgy I | 3 |
| MET 214 # | Mechanical Design and Drafting | 3 |
| MTH 115 | Applied Mathematics II | 3 |
| MTT 111 | Machine Shop I | 3 |
| MTT 112 | Machining Principles | 3 |
| * Summer only | ** Fall only | *** Spring only | # Prerequisite required |

**CAD DRAFTING TECHNOLOGY: GRAPHICS, ANIMATION, AND PRESENTATION OPTION**

**Degree:** Associate in Applied Science, CAD Drafting Technology: Graphics, Animation and Presentation Option

**Plan 24DJ**

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

**FIRST SEMESTER** | 15 |
| ART 124 | Drawing I or Humanities or Fine Arts Elective | 3 |
| CAD 110 | CAD/CAM Concepts | 3 |
| CAD 117 | Introduction to AutoCAD | 3 |
| CAD 170 | Introduction to SolidWorks or | 3 |
| CAD 176 | Introduction to Creo | 3 |
| CMM 111 | Communication Skills or | 3 |
| CMM 121 | Fundamentals of Speech or | 3 |
| CMM 122 | Business/Professional Speaking or | 3 |
| CMM 123 | Dynamics/Small Group Discuss or | 3 |
| CMM 128 | Interviewing Practices | 3 |

**SECOND SEMESTER** | 15 |
| CAD 171 | Introduction to Inventor | 3 |
| CAD 178 | Introduction to Revit | 3 |
| CAD 279 *** | Design Visualization Using 3Ds Max Design or Technical Elective | 3 |
| ENG 120 | Technical Composition I or | 3 |
| ENG 121 | English Composition I | 3 |
| MTH 115 | Applied Mathematics II | 3 |

**THIRD SEMESTER** | 15 |
| ART 222 | Computer Art I | 3 |
| ART 263 # | 2D Computer Animation | 3 |
| CAD 179 | Introduction to Autodesk 3Ds Max | 3 |
| CAD 278 *** | Revit II | 3 |
| EWE 120 | Job Readiness Skills and | 3 |
| EWE 220 | Cooperative Work Experience I | 3 |
| * Summer only | ** Fall only | *** Spring only | # Prerequisite required |

**FOURTH SEMESTER** | 12 |
| ART 271 | Introduction to Electronic Graphic Publishing or | 3 |
| DMD 121 | Introduction to Graphic Design | 3 |
| CAD 217 *** | AutoCAD II | 3 |
| CAD 273 | Advanced CAD Specialization or | 3 |
| DMD 111 | Introduction to Digital Media | 3 |
| **Total Hours for A.A.S. Degree** | **57** |

**TECHNICAL ELECTIVES:**

A broad choice of technical electives is available. See an advisor in the CAD department for approval of electives.

| ART 263 | 2D Computer Animation | 3 |
| ART 264 | 3D Computer Animation | 3 |
| ART 271 | Introduction to Electronic Graphic Publishing | 3 |
| CAD 110 | CAD-CAM Concepts | 3 |
| CAD 111 * | CAD Drafting Applications | 4 |
| CAD 117 | Introduction to AutoCAD | 3 |
| CAD 170 | Introduction to SolidWorks | 3 |
| CAD 171 | Introduction to Inventor | 3 |
| CAD 176 | Introduction to Creo | 3 |
| CAD 177 *** | Civil Drafting # | 3 |
| CAD 178 | Introduction to Revit | 3 |
| CAD 179 | Introduction to Autodesk 3ds Max | 3 |
| CAD 211 *** | Geometric Dimension and Tolerancing | 3 |
| CAD 217 *** | AutoCAD II | 3 |
| CAD 270 ** | SolidWorks II | 3 |
| CAD 271 ** | Inventor II | 3 |
| CAD 273 | Advanced CAD Specialization | 1-3 |
| CAD 276 *** | Creo II | 3 |
| CAD 278 *** | Revit II | 3 |
| CAD 279 *** | Design Visualization Using 3ds Max | 3 |
| CNC 218 | Introduction to MasterCam | 3 |
| DMD 157 | Introduction to Animation | 3 |
| ELT 111 | Electronic Drafting | 2 |
| EWE 120 | Job Readiness Skills | 1 |
| EWE 220 | Cooperative Work Experience I | 2 |
| LPO 111 | Fundamentals of Light and Lasers | 4 |
| LPO 145 | Photonic CAD Applications | 3 |
| MET 111 | Manufacturing Processes | 3 |
| MET 112 | Basic Metallurgy I | 3 |
| MET 214 | Mechanical Design and Drafting | 3 |
| MTH 115 | Applied Mathematics II | 3 |
| MTT 111 | Machine Shop I | 3 |
| MTT 112 | Machining Principles | 3 |

**CONTACT INFO**

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Grayslake, IL 60030

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bblackberg@clcillinois.edu

Engineering, Math and Physical Sciences
(847) 543-2044

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May 2019
Per 2019-20 catalog

**Per 2019-20 catalog**