

# Industrial Manufacturing Technology (601)

## Computer-Aided Design Mechanical (Certificate)

### About Our Program

This program is designed to prepare students to be a CAD technician in the manufacturing and/or engineering industries.

### Nature of Work and Employment

Graduates of this program prepare clear, accurate, and detailed drawings from the rough sketches, specifications, and calculations of engineers and designers. These drawings are used for engineering and manufacturing purposes according to the specified dimensions. CAD/CAM technicians also use computer-controlled systems to assist industrial designers and engineers in designing products and carrying out automated processes.

### Program Contacts

Call Highland at 815-235-6121 for the following program contacts:

- Scott Anderson, Vice President of Business, Technology, and Community Programs
- Aaron Sargent, Industrial Technology Faculty
- Vicki Schulz, Student Advisor/Transfer Coordinator

### Required Courses

|   |      |     |   |   |
|---|------|-----|---|---|
| * | BUSN | 141 | Business Communications (or ENGL 121 or COMM 101) | 3 |
|   | DRAF | 105 | Computer-Aided Drafting (CAD) I                   | 3 |
| * | DRAF | 106 | Drafting Fundamentals I                           | 3 |
|   | DRAF | 110 | Print Reading and Inspection                      | 2 |
| * | DRAF | 260 | CAD-3D Solid Modeling (or DRAF 151)               | 4 |
| * | MATH | 111 | Technical Math                                    | 3 |
|   |      |     | Technical Elective                                | 3 |

**Total Credit Hours = 21**

\* Course has a prerequisite. See course description.

Technical elective can be MTEC 151 or with instructor consent MTEC 270, MTEC 285, or OCED 290.