**Manufacturing and Technology Program - Computer-Aided Drafting and Design Technology Option**

## Program Mission:

The mission of the Jefferson State Community College Manufacturing and Technology Program- Computer-Aided Drafting and Design (CADD) Technology Option is to prepare entry level technology professionals with a concentration in CADD who are competent, ethical, and have a good sense of work ethics.

Coursework includes a strong component of practical applications, hands-on laboratory experience and basic theoretical concepts. Computer applications are an integral part of the curriculum. Graduates offer their employers an immediate contribution as team players equipped with a combination of technical knowledge, problem-solving experience, and communication skills.

The Manufacturing and Technology Program will continuously pursue a highly qualified faculty which constantly strives for excellence in teaching, and which is sensitive to the educational needs and capabilities of students as well as to the changing and on-going needs of the manufacturing industry.

## Program Outcomes

- Program Completion - Graduation rate will meet or exceed state viability requirement
- Program Satisfaction – At least 75% of graduates surveyed will report satisfaction with educational preparation (as indicated by very well prepared or adequately prepared on Graduate Survey/Questionnaire)
- Job Placement -75% of graduates will be employed in field or in a manufacturing technology related field within twelve months of graduating
- Employer Satisfaction - 80% of employers surveyed will indicate that graduates were adequately prepared for entry level positions (as indicated by very well prepared or adequately prepared on Employer Survey/Questionnaire)

## Student Learning Outcomes

1. Recognize safety hazards in the work place and demonstrate methods to eliminate or mitigate.
2. Communicate in a clear and concise manner verbally and in writing.
3. Prepare electromechanical assembly and schematic drawings, and bills of materials, for industrial applications
4. Demonstrate proficiency in advanced CADD skills by creating complex drawings using wire-frame and solid-modeling techniques
5. Demonstrate knowledge of and apply geometric dimensioning and tolerancing concepts

**Program Mapping:**

**I:** Introduced in this course.
**P:** Practiced in this course.
**M:** Mastered in this course.

| COURSES | PLSLO #1 | PLSLO #2 | PLSLO #3 | PLSLO #4 | PLSLO #5 |
|---|---|---|---|---|---|
| **AUT 104** | | I, P, M | I, P | | |
| **ELM 200** | I, P, M | I, P, M | I, P | | |
| **MET 190** | I, P, M | I, P, M | I, P | | |
| **AUT 102** | I, P, M | I, P, M | | | |
| **AUT 186** | I, P, M | I, P, M | I, P | | |
| **AUT 262** | | I, P, M | | | |
| **MET 201** | | I, P, M | I, P, M | | I, P |
| **MET 202** | | I, P, M | I, P, M | I | I, P, M |
| **MET 204** | | I, P, M | I, P, M | I, P, M | I, P |
| **MET 211** | | I, P, M | I, P, M | I, P, M | I, P, M |
| **MET 239** | | I, P, M | I, P | I, P | I, P, M |
| | | | | | |