

# Bemidji State University

## TADT 1227: Fabricating Fundamentals

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Overview of fundamental lab processes related to extremely diversified industry that produces products in a production environment. Traditional and Non-Traditional processes are introduced along with theories, rules and practices associated with fabrication.

**B. COURSE EFFECTIVE DATES:** 08/25/2014 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. ζ Introduction to technologies utilized to construct products. Traditional vs. Non-traditional equipment.
2. ζ Overview of the many types and styles of manufacturing materials.
3. ζ Review shop safety as it relates to an industrial setting.
4. ζ Safety associated to power equipment operation and hand tool usage
5. ζ Class presentations on project construction. Student will have compiled a notebook of processes, materials and equipment operation.

### D. LEARNING OUTCOMES (General)

1. . explain and provide examples of the major forming and separating processes used in industry.
2. . distinguish manufacturing processes utilized to construct a product.
3. . demonstrate processes utilizing woodworking and metals equipment and tools.
4. . apply OSHA regulations and their importance to the work environment.
5. . design solutions to problems related to product development in manufacturing.
6. . demonstrate improved technical writing skills by the completion of laboratory reports and lecture assignments.

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted