

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