Course Title: Computer Aided Drafting
Approval Date: 
Quarter Course Prefix and Number: 
Revision Date: 7/25/2012
Semester Course Prefix and Number: EIAT 2295

Number of Credits: 2  Number of Lecture Credits: 0  Number of Lab Credits: 2
Number of Studio/Discussion Credits: 
Class Size: 24
Negotiated by AASC on (Date)

Course Purpose Code:

0 – Developmental Courses
1 – Non-Transferable General Studies
X 2 – Technical course related to career programs
3 – College course which has the primary goal of applying certain concepts (e.g. vocal ensemble)
4 – Other college course not considered a part of general education (MNTC) e.g. computer science, health, physical education
5 – Course which is intended to fulfill Minnesota Transfer Curriculum (MNTC) requirements.
9 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

Catalog Description:
This course covers the fundamentals of computer-aided drafting. Basic drawing commands are covered and understanding is reinforced through hands on drawing exercises. The content will be focused on drawing electronic, electrical, loop sheets and P&ID diagrams. The proper procedures for file management and printing/plotting of completed work are also covered.

Prerequisites and/or recommended entry skills/knowledge:
Course Prerequisite(s): None
Reading Prerequisite: None
Composition Prerequisite: None
Mathematics Prerequisite: None

Career Programs and Transfer Majors Accessing this Course:
Electrical and Industrial Automation Technology

Minnesota Transfer Curriculum Goal(s) partially met by this course if applicable:

0. X None
1. None
2. None
3. None
4. None
5. None
6. The Humanities and Fine Arts
7. None
8. None
9. None
10. None
Learning outcomes, including any relevant competencies listed in the Minnesota Transfer Curriculum:

Following the completion of this course the student will be able to demonstrate the ability to:

1.) Examine Creating Geometry
2.) Examine Changing Geometry
3.) Examine Organizing Objects with Layers
4.) Examine Creating, Placing, and Managing Symbols
5.) Examine Dimensioning Drawings
6.) Examine Placing Text in Drawings
7.) Examine Scaling, Layout, and Plotting
8.) Examine Sharing Drawing Files
9.) Examine Importing and Exporting Data
10.) Examine Software Customization

Possible student assessment methods:
Lab assignments, workbooks, drawing projects, and tests.

Use of instructional technology (includes software, interactive video and other instructional technologies):
Computers, CAD software, videos, workbooks, texts, and reference guides.

A one-paragraph summary or outline of the major course content:
See “Learning Outcomes” above.

Additional special information (special fees, directives on hazardous materials, etc.)
Laptop Computer Lease

Approvals:

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Distribution: Original – Administrative Office
Copies: Curriculum Committee Chair, Learning Center, Library, Originating Faculty Member, Records, Student Services, Scheduler, Transfer Specialist
Revised February 10, 2004