

## Course Outline

Course Title: Electrical & Industrial Automation Projects  
Semester Course Prefix and Number: EIAT 1225  
Old Quarter Course Prefix and Number:

Submitted By: Robert Stevens  
Approval Date:  
Revision Date: 5-2-05

Number of Credits: 2 to 8  
Semester(s) Offered:  
Class Size: Individual  
Negotiated by AASC on  
(Date)\_\_\_

Number of Lecture Credits:  
Number of Lab Credits: Number of Lab Hours:  
Number of Studio/Demonstration/Internship Credits:

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### Course Purpose Code:

- \_\_\_\_\_ 0 – Developmental Courses
- \_\_\_\_\_ 1 – Non-transferable, General Education
- 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 the Minnesota Transfer Curriculum (MNTC) requirements.
- \_\_\_\_\_ 9 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

### Catalog Description:

This course is designed to cover learning related to special assignments, independent study, internships and industrial work experience directly related to the curriculum objectives of the Electrical, and Industrial Automation Technology program. The course content will be determined on an individual basis dependent on student needs and departmental requirements. The EIAT department, in coordination with the student, will design an individual plan that meets specified objectives.

### Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s): Industrial electrical experience, previous electrical related course work  
Reading Prerequisite:  
Composition Prerequisite:  
Mathematics Prerequisite:

### 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:** Notes: No more than two goals may be met by any one course. (Curriculum Committee review and the Chief Academic Officer's approval are required).

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|---|---|
| 0. <u>  X  </u> None                                    | 6. _____ The Humanities and Fine Arts     |
| 1. _____ Communications                                 | 7. _____ Human Diversity                  |
| 2. _____ Critical Thinking                              | 8. _____ Global Perspectives              |
| 3. _____ Natural Sciences                               | 9. _____ Ethical and Civic Responsibility |
| 4. _____ Mathematical/Logical Reasoning                 | 10. _____ People and the Environment      |
| 5. _____ History and the Social and Behavioral Sciences |   |

**Learning outcomes, including any relevant competencies listed in the Minnesota Transfer Curriculum: Upon completion of this course, the student will be able to**

- Display critical thinking skills in project type assignments.
- Demonstrate broadened base of technical knowledge and skills related to electrical control systems.
- Exhibit improved skills in self-directed learning.
- Communicate technical concepts and processes

**Student assessment methods:**

Independently determined by project type:.

- Evaluation of project reports.
- Pre-test and post-testing.
- Test-out process for previously obtained skills and knowledge.
- Evaluations by internship proctors.
- Portfolios presentation of accomplished tasks and outcomes
- Demonstration of skills and knowledge
- Matching of project outcomes to required outcomes within the current EIAT program.

**Use of instructional technology** (includes software, interactive video and other instructional technologies):

- Web based research
- Web based tutorials
- On-line coursework

**Outline of the major course content:**

Outline and content is germane to project assignment:

- Course outline is developed by collaboration between the EIAT department, instructor and student.
- Individual outline is developed for each project previous to enrollment in the course.

**Additional special information** (special fees, directives on hazardous materials, etc.)

**Transfer Information:** (Please list colleges/majors that accept this course in transfer.)

**Approvals:**

Body	Representative Signatures	Date
Curriculum Committee		
Faculty Association		
Academic Affairs Standards Committee		
Chief Academic Officer		

Distribution: Original – Administrative Office

Copies: Curriculum Committee Chair, Learning Center, Library, Originating Faculty Member, Records, Student Services, Scheduler, Transfer Specialist

Revised February 10, 2004