

**OAKTON COMMUNITY COLLEGE  
GENERIC SYLLABUS**

<b>I.</b>	<b><u>Course Prefix</u></b>	<b><u>Course Number</u></b>	<b><u>Course Name</u></b>	<b><u>Credit:</u></b>	<b><u>Lecture</u></b>	<b><u>Lab</u></b>
	FME	251	Facilities Engineering Practicum	3	1	15

**II. Prerequisites:**

Completion of nine credits from the major requirements for the A.A.S. and/or consent of program coordinator.

**III. Course (Catalog) Description:**

Course involves work experience for credit, within approved business, industrial or institutional firm. Arrangement and credit given are worked out in conjunction with student, facilities engineering coordinators and workplace facility.

**IV. Learning Objectives:**

Develop skills and work place related skills directly usable for facilities engineering related topic.

**V. Academic Integrity:**

Students and employees at Oakton Community College are required to demonstrate academic integrity and follow Oakton's Code of Academic Conduct. This code prohibits:

- cheating
- plagiarism (turning in work not written by you, or lacking proper citation)
- falsification and fabrication (lying or distorting the truth)
- helping others to cheat
- unauthorized changes on official documents
- pretending to be someone else or having someone else pretend to be you
- making or accepting bribes, special favors, or threats, and
- any other behavior that violates academic integrity.

There are serious consequences to violations of the academic integrity policy. Oakton's policies and procedures provide students a fair hearing if a complaint is made against you. If you are found to have violated the policy, the minimum penalty is failure on the assignment and, a disciplinary record will be established and kept on file in the office of the Vice President for Student Affairs for a period of 3 years.

Details of the Code of Academic Conduct can be found in the Student Handbook.

**VI. Outline of Topics:**

1. Single - Phase Motors
2. Three - Phase Motors
3. Direct Current Motors
4. Motor Selection

5. Motor Protection
6. Motor Failure
7. Special Motors
8. Logic as Applied to Line Diagrams
9. Solenoids
10. AC/DC Contactors
11. AC/DC Magnetic Motor Starters

**VII. Methods of Instruction:**

The instructions will consist of:

- Lectures augmented by slides and films
- Practical demonstrations
- Students participation in class projects

**VIII. Course Practice Required**

Student will support the activity log and details of the duties performed on a weekly basis. Upon completion student will submit a report as of his/her accomplishment. A letter from the workplace facility may be required in some cases depending on the learning objectives.

**IX. Instructional Materials**

*Troubleshooting Electric Motors* G.A. Mazur and Thomas E. Proctor, American Technical Publishers Inc., 1993

*Electrical Motor Controls-Automated Industrial Systems* Third Edition, 1992 by G. Rackis and G. Mazur, American Technical Publishers, Inc.

*Electrical Motor Controls-Automated Industrial Systems, Manual*, 1992, G. Mazur and J. Sparlin, American Technical Publishers, Inc.

**X. Methods of Evaluation:**

Students will be evaluated by means of quizzes, three examinations and class participation.

**XI. Other Course Information:**

If you have a documented learning, psychological, or physical disability you may be entitled to reasonable academic accommodations or services. To request accommodations or services, contact the ASSIST office in the Learning Center. All students are expected to fulfill essential course requirements. The College will not waive any essential skill or requirement of a course or degree program.

Effective beginning term Fall 2003

Ending term \_\_\_\_\_

Syllabus prepared by: Chad Ganger

Date: 8/03

Reviewed by Dept/Program Chair: Chad Ganger

Date: 8/03

Approved by Dean: \_\_\_\_\_

Date: \_\_\_\_\_