

ILLINOIS VALLEY COMMUNITY COLLEGE



Course Syllabus

Occupational Technologies Division

ELE 1206 - Electrical Wiring

Date:	Spring 1997
Semester Hours:	2.0
Prerequisite:	ELE 1201 or consent of instructor
Lecture:	1 hr/wk
Labs:	2 hr/wk
Offered:	
Instructor:	Staff

CATALOG DESCRIPTION:

This course will cover the skills necessary to perform most residential and light industrial wiring. These skills include installing and wiring breaker boxes, motor controls, outlets and switches, and pulling wire through conduit after bending and installation. The installation of telephone and computer network wiring will also be discussed.

COURSE OBJECTIVES:

Upon completion of this course, the student will be able to:

1. Identify materials and tools used in electrical wiring.
2. Understand electrical blueprints.
3. Understand proper wiring methods in accordance with the National Electrical Code.
4. Design and install a complete electrical installation for a single family dwelling.

5. Design and install an electrical installation for a multi-family dwelling.
6. Design and install an electrical installation for a commercial building.
7. Design and install an electrical installation for an industrial plant.
8. Plan an electrical installation for specialized and hazardous locations.

COURSE CONTENT:

Introduction to lab
Safety, Tools, and Grounding
Electrical Circuit Components
Transformers
Wiring Systems
Service Entrances
Planning Branch Circuits
Boxes, fittings, and Covers
Installing Boxes and Conductors
Device Wiring
Reading Prints and Wiring Circuits
Appliance Wiring and Special Outlets
Light Commercial Wiring
Low-Voltage Circuits and Troubleshooting

INSTRUCTIONAL METHOD:

1. Lecture - discussion
2. Reading assignments
3. Laboratory work
4. Demonstrations
5. Homework
6. Quizzes

STUDENT REQUIREMENTS AND METHOD OF EVALUATION:

Grades for course will be based upon:

Attendance
Lab work and participation
Workbook
Lab exam
Mid-term and final exams

TEXT:

Modern Residential Wiring, Holzman, Goodheart/Wilcox