



BCCM 1290

Division: Career and Technical Education

Department: Construction Technology

Course: BCCM 1290

Title: Residential Electrical Wiring

Catalog Description:

In this course, students receive instruction on the fundamentals of wiring of a residential home with emphasis on electrical code and safety requirements. The course includes actual practical experience in wiring of project house. This is a half semester course.

General Education Requirements: N/A

Semesters Offered: Fall

Credit/Time Requirement: Credit: 3; Lecture: 2; Lab: 2

Clock/Hour Requirements: 60

Offered for Non-Credit: Yes

Prerequisites: N/A

Corequisites: N/A

Justification:

This is a background course needed for construction students. It is recommended by the program advisory committee.

Student Learning Outcomes:

Upon successful completion of this course, students will:

- be able to understand the basic theory of electricity and gain the practical skills needed to wire a residential home.

Content:

This course will include:

- electrical terms and plans
- electrical tools and safety
- house wiring circuits
- metallic cable

- service entrance
- low voltage wiring and remodeling.

General Education Outcomes:

Applied Education Outcomes:

2) Students will become aware of industry specific certification and develop skills sufficient to acquire the same.

Student will practice basic wiring skills and become aware of the requirements to become a licensed electrician. Actual practice wiring a residential building is part of the course.

Key Performance Indicators:

Student Learning Outcomes will be assessed by one or more of the following Key Performance Indicators:

- performance on the job site project (observation and evaluation)
- exam/quizzes (written or oral)
- attendance.

Representative Text and/or Supplies:

- Harvey N. Holzman, *Modern Electrical Wiring*, current edition.

Optimum Class Size: 15

Maximum Class Size: 20

Signatures:

I hereby submit this course syllabus:

Marlin Christensen, M. Ed., Instructor

I hereby find this course consistent with the goals and resources of the Construction Technology Department:

Marlin Christensen, M. Ed., Instructor, Chair

I hereby find this course consistent with the goals and resources of the Career and Technical Education Division:

Michael P. Medley, MBA, Assistant Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

Michelle Olsen, MLS, Campus Librarian (Richfield Campus)