# Western Dakota Technical Institute
# 800 Mickelson Drive
# Rapid City, SD 57703-4018

## Master Syllabus

**Course Number:** IEL 130
**Course Name:** Introduction to Electrical Wiring
**Credits:** 2
**Contact Hours:** 2 lecture hours

**Course Description:** This course is designed to emphasize the importance of safety and to provide a foundation for practical electrical wiring. Information included begins with a general introduction of the National Electrical Code and laws pertaining to electrical licensing and installation. Theory and lab experience are used in the study of residential wiring principles and common residential circuit hookups.

**Prerequisites:** IEL 132 and IEL 133

**Textbooks:** http://bookstore.wdt.edu

**Materials:** None

**Student Learning Outcomes:**

- Explain the different types of residential electrical systems
- Explain electrical tools and safety
- Interpret wiring plans and the routes for small appliance, general purpose, and individual circuits
- Describe how to create electrical systems from electrical plans
- Interpret plan locations of device (switch) boxes and outlet boxes

**Assessment:** Analytic skills and employability will be assessed throughout this course.

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