

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

**Master Syllabus**

**Course Number:** IEL 211  
**Course Name:** Electrical Motor Control  
**Credits:** 3  
**Contact Hours:** 3 Lecture

**Course Description:** This course is intended to familiarize the student with motor control theory from very basic concepts to much more complicated circuits. This course is intended to be taken concurrently with IEL 216 – Motor Control Lab.

**Prerequisites:** IEL 223, IEL 226

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

**Materials:** Drawing equipment including triangles, straight edge, French curve, and electrical templates

**Student Learning Outcomes:**

- Identify common motor control devices.
- Develop line and wiring diagrams of common motor control circuits.
- Analyze the function of motor control devices as used in the common motor control circuits.

**Assessment:** Students' analytical skills, technology skills, and employability will be assessed throughout this course.

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