

# APR 202 MOTOR CONTROLS

CRN 31865

Winter 2023

## Instructor Name

Bill Cochovity

## Email address

cochovw@linnbenton.edu

## Location, Hours, Days

IA 215-213(Lab) Tuesday and  
Thursday 6:00-8:50 P.M.

## Description

This term will be a continuation of APR 201. As the workbook assignments come to an end there will be focus on how article 430 of the NEC is used for motor circuitry and installation. Weekly code quizzes will familiarize students with the codebook.

## Required Materials

- NFPA 70 National electric code
- Electrical Motor Controls for Integrated Systems 5<sup>th</sup> Edition. (Textbook) ISBN 978-0-8269-1226-8
- Electrical Motor Controls for Integrated Systems 5th Edition. (Workbook) ISBN 978-0-8269-1227-5
- Access to Moodle

## Optional Materials

Key Word Index for code quiz

## Course Schedule

Week	Topic	Reading	Exercises
Week 1	Contactors/Magnetic Starters	Chapter 12	Worksheets
Week 2	Contactors/Magnetic Starters Motor troubleshooting	Chapter 12	Worksheets
Week 3	Timing and Counting	Chapter 16	Worksheets
Week 4	Timing and Counting	Chapter 16	Worksheets and Lab
Week 5	Solid State Relays and Starters	Chapter 25	Worksheets

<b>Week</b>	<b>Topic</b>	<b>Reading</b>	<b>Exercises</b>
Week 6	Solid State Relays and Starters	Chapter 25	Worksheets
Week 7	Motor Drives	Chapter 26	Worksheets
Week 8	Article 430 (NEC)		
Week 9	Motor Calculations		
Week 10	Applying Motor Calculations		
Week 11	Final		

### Additional Information and Resources

Weekly code quiz.