COLLEGE OF CHEMISTRY COURSE GUIDE (.../INDEX.HTML)

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CBE 162 - DYNAMICS AND CONTROL OF CHEMICAL PROCESSES (4 UNITS)

COURSE OVERVIEW

SUMMARY

Chemical Engineering 162 is offered every semester and is the process control course for chemical engineering students.

PREREQUISITES

Core chemical engineering upper division courses

TOPICS COVERED

- Modelling
- Dynamics
- Feedback control
- PID controllers
- IMC controllers
- Closed-loop interactions
- Frequency-domain analysis

WORKLOAD

COURSEWORK

• Project (20%)

• Homework and Quizzes (15%)

• Labs (10%)

• Midterm (20%)

• Final (35%)

TIME COMMITMENT

3 hours of lecture per week. 3 hours of computational lab per week.

CHOOSING THE COURSE

WHEN TO TAKE

The class is only juniors and seniors. This course assumes knowledge of CBE 140, 141, 142, 150A/B.

WHAT NEXT?

• Control courses in other departments, like EE C128.

ADDITIONAL COMMENTS AND TIPS

There are weekly homework and lab assignments that do not take long to finish.

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Last edited: Fall 2018

COLLEGE OF CHEMISTRY PEER SERVICES

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