### ChE 436 Competencies for Exam 2

#### Level 3

none

#### Level 2

- Students will learn about chemical processes, units, and corresponding equipment related to process control
- Students will be able to set up and solve simple transient material balances.
- Students will be able to set up and solve simple transient energy balances.
- Students will understand the concept of a transfer function in classical control and be able to use transfer functions (Laplace domain)

# So What Will Be On The Exam?

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none

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Find Order of G(s)







# Chapter 5

- First-Order Response to:
  - Step Function
  - Ramp
  - Sine Wave
- Integrating Function
- Second-Order Response to:
  - Step Function
  - Sine Wave

**Hint: Don't re-derive functions that are already in the book!!!**