

# ManuTech III

- **Process Control - Introduction**
- **Syllabus**
  - **Crystal Structures**
  - **Flowsheeting, Flow Diagrams**
  - **Material and Energy Balances**
  - **Unit operations**
    - **Heat exchangers**
    - **Distillation columns**

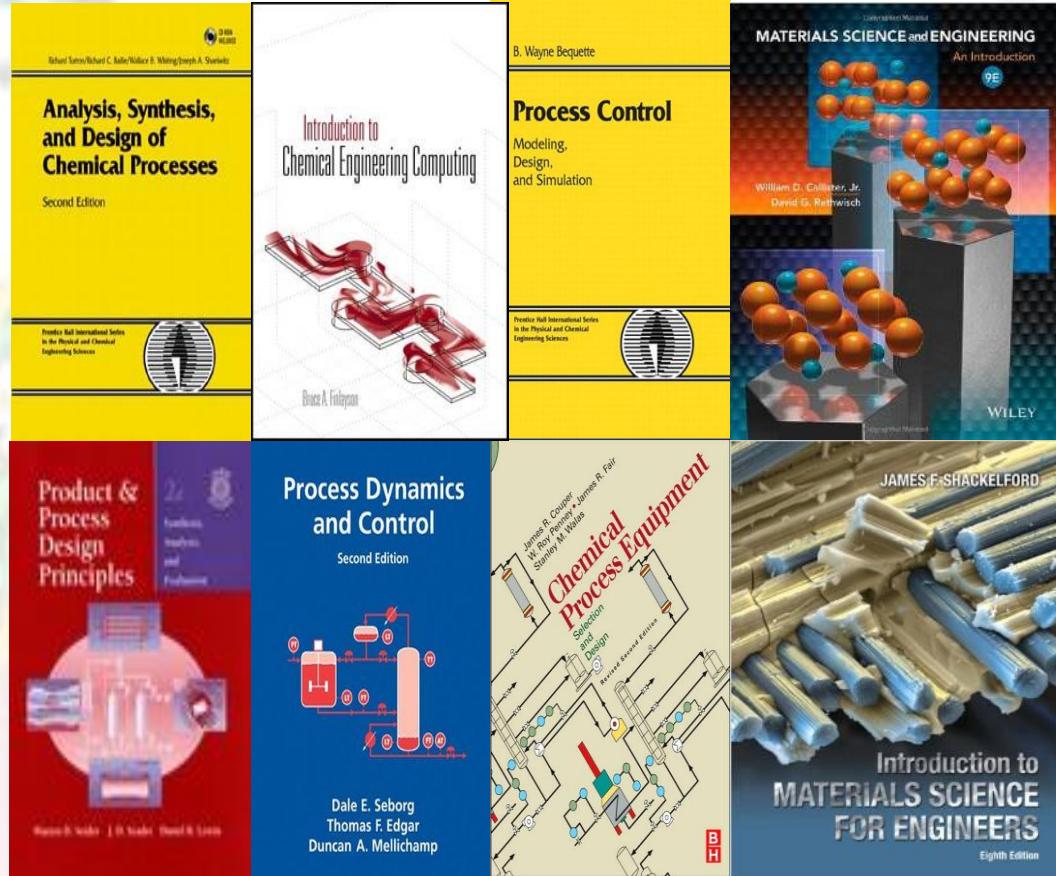
# Class Schedule



- Two lectures with Adrienne
- Two lectures with me:
  - Thursdays 11:00 – room TN-302
  - Thursdays 12:00 – room 052

# TextBooks

- **Analysis, Synthesis, and Design of Chemical Processes, Second Edition, by Richard Turton**
- **Chemical Engineering Computing by Finlayson**
- **Product and Process Design Principles, Second Edition, by Seider, Seader, & Lewin**
- **Process Dynamics and Control, Second Edition, by Seborg, Edgar, & Mellichamp**
- **Process Control, by Bequette**
- **Chemical Process Equipment, Couper, Penney, Fair & Walas**
- **Materials Science and Engineering, Callister**
- **Materials Science for Engineers, Shackelford**
- **Books expensive, but look on books.google**



# Assessment

- **May Exam – 70%**
  - Common paper for Adrienne and me
- **Midterm – 30%**
  - Across Adrienne's part of course
  - And for Process Technology
    - Series of online quizzes
    - One every week
    - Open on Thursdays, last for eight days
    - Best of three attempts
    - Based on weeks work

# Brightspace

- Brightspace site contains:
  - Course announcements
  - Lecture notes
  - Past papers
  - Tutorial Sheets
  - CA Quizzes
- Same brightspace site for both Adrienne and Eugene