

February 16, 2015

Dear EECE 503 students,

I need to bring a few items to your attention:

1. The weekly summaries that you have been writing should be quite helpful to you in mastering the material quite helpful to so you should keep doing it.

However, you do not need to summarize what you learned in Chapters 8N and 9 N (unless you have already done so, in which case we will record it) since you will have plenty of opportunity to demonstrate how well you have mastered that material on your Exam 1 ( take home team effort on the acid rain problem).

Regarding ideal reactors, since that is typical ChE undergraduate material, simply list the concepts you learned and indicate which were new to you.

2. In order to properly cover some basic material we will change the schedule for the three weeks remaining before the semester break as indicated below:

**Week 6: February 17 and 19.**

**Evaluation of rate forms from ideal reactors.**

**Treatment of in situ product separation. (Process intensification concepts).**

**Basic features of nonisothermal operation: hot –spots in tubular reactors, safe adiabatic operation.**

**HW 6. Due on February 24.**

**Week 7: February 24 and 26.**

**Non-ideal flow patterns and residence time distributions. Bypassing and stagnancy.**

**Micromixing concepts: segregated flow and maximum mixedness.**

**HW7. Due on March 3.**

**Week 8: March 3 and 5.**

**Modeling of tubular reactors.**

**Axial dispersion model and other models.**

**HW8. Due on March 17.**

**Please recall that your Exam 1 (team effort is due on March 3)**

**Mike D.**