# 052:161 Mass Transfer & Separations Fall 2011

# Time and Place

10:30-11:20AM Monday-Wednesday-Friday 2217 Seamans Center for the Engineering Arts & Sciences NOTE: Exams will be at different times

# **Course Description**

Mechanisms of diffusional and convective mass transfer; solution of industrial problems, including the design of distillation, extraction, absorption, leaching, humidification, adsorption, drying, and chromatography processes; mechanical separations.

### Instructor

Eric Nuxoll eric-nuxoll@uiowa.edu 4140 SC Office Hours: M 11:30-12:30, F 3:30-5, or by appointment

# **Teaching Assistant**

Jameson Schoenfelder jameson-schoenfelder@uiowa.edu Office Hours: T 4:30-6:00 with discussion of example problems in 3026 SC M 2:30-3:30 in G138 SC

# Required Text

Separation Process Principles, 3<sup>rd</sup> Edition by J.D. Seader, E.J. Henley & D. K. Roper, ISBN: 978-0-470-48183-7

### Course Format

Lectures with weekly homework, one group project, three mid-term exams and a final exam. Each lecture should conclude with a minor quiz.

### <u>Grading</u>

Course grade will be weighted as follows: Homework: 18% Project: 7% Final Exam: 25% Mid-term Exams: 15% each Minor Quizzes: 5%

# Scheduling conflicts

Students anticipating a scheduling conflict should contact the instructor as soon as possible. Exams will be offered at alternative times as consistent with the University's exam policies. These policies can be viewed at www.registrar.uiowa.edu/exams/exampolicy.aspx

# Accommodations for Disabilities

If you feel that you may need an accommodation based on the impact of a disability please contact Prof. Nuxoll privately to discuss your specific needs. You may also contact the Office of Student Disability Services (319/335-1462) to discuss the accommodations that are available for students with documented disabilities.

This course is housed in the College of Engineering, therefore class policies on matters such as requirements, grading, and sanctions for academic dishonesty are governed by the College of Engineering. Students wishing to add or drop this course after the official deadline must receive the approval of the Dean of the College of Engineering. Details of the University policy of cross enrollments may be found at: http://www.uiowa.edu/~provost/deos/crossenroll.doc

<u>Schedule</u> Below is a **ROUGH** outline of the course, with accompanying section of the text

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December 7 (W)Discussion of Midterm #3December 9 (F)Review			Contra )	
December 9 (F) Review			Center)	
Detember 15 (11) FINAL EAANI ( $7:30 - 9:30$ am, $2217$ Seamans Center)	. ,			
	December 15 (11)	FINAL EAANI (7:50 – 9:50am, 2217 Seamans Center)		