Physical and Chemical Separations  
CHEM 5103  
(PHSC 0119)

Instructor: Zhibo Yang  
Office: 1160 SLSRC  
Office Hours: by appointment  
Text: Unified Separation Science by J. Calvin Giddings

Grading:  
Homework ........................................ 100 pts  
2 Examinations .................................... 200 pts  
Paper ............................................. 100 pts  
Final Examination ............................... 200 pts  
TOTAL 600 pts*  
*Extra credit (2 pts for each board appearance)

Course Topics:  
Introduction  
Solute Thermodynamics  
Transport Mechanisms  
Chromatography

Exam 1: February 27, 2014 (Tentative Date)  
Exam 2: April 15, 2014 (Tentative Date)  
Final Examination: Thursday, May 8, 2014 at 1:30 PM

Homework will be graded during class periods. Individual problems will be assigned a value of 2 pts.  
Partial credit of ½ pts may be assigned when appropriate. Students should not seek copies of homework  
solutions or exams from previous students!

Topics for the paper will be assigned approximately 1 month prior to the due date. Topic suggestions are  
encouraged! Papers should be 10-15 typed double spaced pages and include 10-15 primary literature  
references (textbooks can be used, but they don’t count as primary references).

The University of Oklahoma is committed to providing reasonable accommodation for all students with  
disabilities. Students with disabilities who require accommodations in this course are requested to speak  
with the instructor as early in the semester as possible. Students with disabilities must be registered with  
the Office of Disability Services prior to receiving accommodations in this course. The Office of  
Disability Services is located in Goddard Health Center, Suite 166, phone 405/325-3852 or TDD only  
405/325-4173.

Each student should acquaint her or his self with the University's codes, policies, and procedures  
involving academic misconduct, grievances, sexual and ethnic harassment, and discrimination based on  
physical handicap. Students engaging in academic misconduct (including cheating, plagiarism, and any  
other action that may improperly affect evaluation) will be subject to sanctions in accordance with the  
Norman Campus Academic Misconduct Code.

The instructor reserves the right to change any items contained in this syllabus. This includes, but is not  
limited to: course content, scheduled dates, and fraction(s) of final grade assigned to individual  
components of the course.
Plagiarism

Plagiarism is fundamentally an act of dishonesty in which one claims the work of another to be their own. If this has occurred in the judgment of the evaluator, s/he has no moral option but to charge the student with plagiarism. At the University of Oklahoma, the Student Code of Academic Misconduct further states that any act of academic misconduct MUST be reported along with the recommended grade sanction within 15 days of the discovery.

Examples of Plagiarism

Case I. We all readily recognize blatant plagiarism. Examples of this are provided by Carol Cole (“Say It Ain’t So, Gary, Say It Ain’t So”, Oklahoma Gazette, Dec. 27, 2001, pp. 15) in which she accuses Gary England, KWTV Meteorologist, of plagiarism in connection with his column written for the Oklahoman. Two examples of this are provided below. In both cases the first cited passage is taken from the Oklahoman article written by Mr. England, while the subsequent passage is taken from a web site.

A “Mars is strangely reminiscent of our own world. Although having an extremely thin carbon-dioxide atmosphere and a very dry and cold surface – daytime temperatures average about 58 degrees below zero – features resembling ancient river beds tell of more hospitable times …” (Daily Oklahoman, Dec. 10, 2001)

B. “Mars is strangely reminiscent of our own world. Although having an extremely thin carbon-dioxide atmosphere, and a very dry and cold surface (daytime temperatures average around –50 degrees C), features resembling ancient river beds tell of more hospitable times…” (Science Net observed on/about 12/27/01 at www.scienceenet.org.uk)

A. “The sun normally shows signs of variability, such as its 11-year sunspot cycle. Within that time, it goes from a minimum to a maximum period of activity represented by a peak in sunspots and flare activity …” (Daily Oklahoman, Dec. 14, 2001)

B. “The sun normally shows signs of variability, such as its 11-year sunspot cycle. Within that time, it goes from a minimum to a maximum period of activity represented by a peak in sunspots and flare activity….” (Space Daily observed on/about 12/27/01 at www.spacedaily.com)

Case II. Plagiarism also occurs when one paraphrases but maintains much of the original article. The following example is a clear cut case of plagiarism. This was reported in Newsweek in the March 18, 2002 edition. No author was cited for the article. In the article, a passage from William L. Shirer's book The Rise and Fall of the Third Reich is given as:

"And so at noon on September 19 the British and French ministers in Prague jointly presented the Anglo-French proposals to the Czech's government. They were rejected the next day in a dignified note which explained – prophetically – that to accept them would put Czechoslovakia "sooner or later under the complete domination of Germany." After reminding France of her treaty obligations…"

This is followed by a passage from the later appearing book (1987) written by Doris Kearns Goodwin entitled The Fitzgeralds and Kennedys. [This is somewhat more disconcerting since Ms. Goodwin later (1994) won a Pulitzer Prize for work entitled "No Ordinary Time".]

“The following day the Anglo-French proposals were presented to the Czech government, which immediately rejected them with a dignified and prophetic note saying that to accept them would put Czechoslovakia "sooner or later under the complete domination of Germany.: But the British and French were in no mood to allow the Czechs…"