Physical and Chemical Separations
CHEM 5120
(SLSRC 2410)

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

Grading:
Homework ....................................... 100 pts
Midterm Examination .......................... 100 pts
Paper ............................................. 100 pts
Final Examination ............................. 200 pts
TOTAL 500 pts*
*Extra credit (2 pts for each board appearance)

Course Topics:
Introduction
Solute Thermodynamics
Transport Mechanisms
Chromatography

Midterm Examination: March 10, 2016 (Tentative Date)
Final Examination: Wednesday, May 11, 2016, 1:30-3:30 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! Students should not provide copies of homework solutions or exams to future 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). Papers will be checked for plagiarism. Therefore, please provide the electronic version of your work.

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.sciencenet.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 second passage reads:

"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..."