

DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING  
CALIFORNIA STATE UNIVERSITY, FULLERTON

**EGCE 570 - Fate and Transport of Chemicals in the Environment**

Fall of 2017

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**Prerequisite**

Enrollment in MS in Environmental Engineering program or consent of the instructor

**References** (No textbooks are assigned for this course)

- “*Chemical Fate and Transport in the Environment (2<sup>nd</sup> ed.)*” by Hemond & Fechner-Levy, Academic Press (1999).
- “*Chemistry, The Central Science (12<sup>th</sup> ed.)*” by Brown, LeMay, Jr., Bursten, Murphy, and Woodward, Prentice Hall (2011).

**Homework**

Be sure to keep current in your homework assignment. Problems must be worked on an 8.5” x 11” paper. ***Late homework and/or those not conforming to the above guidelines will not be graded.***

**Drop Policy**

Please consult the Fall 2017 Schedule regarding the University regulations and the deadlines for dropping this course. Note that the department stamp and/or the Department chair’s signature is required in addition to instructor’s signature.

**Scheduled Examinations**

Anyone missing a scheduled examination must notify the instructor or the department office in advance except for bona fide emergencies. It must be followed by a written letter from a medical doctor or other appropriate official. For excused absences, no make-up examinations will be given and average scores in other examination maybe just extended, at the discretion of the instructor. Unexcused absences count as if a zero score has been obtained.

**Grading Policy**

You will be graded on a curve and you can score a total of 100 points in this course. (Tentative grade scale: 90 – 100% = A; 87 – 89 % = A-; 84 – 86 % = B+; 80 – 83 % = B; 77 – 79 % = B-; 74 – 76 % = C+; 70 – 73 % = C; 67 – 69 % = C-; 64 – 66 % = D+; 60 – 63 % = D; 57 – 59 % = D-; <57% = F (Keep and show all your graded assignments and exams if you have questions on the homework and midterm scores used in deriving your final grade).

Homework/Class participation	25 %
Scheduled Midterm (10/14/2017)	30 %
FINAL EXAM (12/9/2017)	35 %

**Required Technical Competencies and Equipment**

By Appointment Only. I usually respond email in 48 hrs. Please post any course related questions on the course blog. So I don’t have to answer the same questions many times. Only email me if it’s personal.

## **Required Technical Competencies and Equipment**

All course materials will be distributed using the CSUF TITANium system. To use TITANium and their student portal, students will need access to a computer and an Internet connection. Submission of hand-written problem sets will require the use of a scanner. The details of minimum technical specifications, internet connection/access, and computer skills and competencies are shown below:

### **1. Computer Requirement**

To fully participate in this course, you will need to have and successfully operate a computer system that meets the following minimum technical specifications:

**Operating System:** Windows XP or higher, Macintosh OS X

**Processor:** 1.0 GHz or higher preferred. **Memory:** 1 GB of RAM or higher.

**Plug-ins:** Adobe Reader, Flash Player, Quicktime, Java, Windows Media Player

**Browser:** Chrome, Firefox, or Internet Explorer (Safari for Mac)

**Software:** Microsoft Office 2003 or Open Office, PowerPoint 2010 Viewer

**E-mail Account:** Must be able to send/receive attachments.

**2. Internet Connection/Access:** Students are required to have a dependable connection to the Internet. The speed and reliability of your connection can and will directly influence your online learning experience and your ability to successfully complete assignments. A Cable, DSL, or other high speed network is highly recommended.

### **3. Computer Skills and Competencies**

Students who enroll in online courses and/or programs must have the requisite knowledge to use the computer, navigate the internet, and use TITANium.

## **On-Line Participation**

Student on-line participation (e.g., blog postings) is expected.

## **On-line Availability of Instructor**

The instructor will monitor course emails at least twice a week during the specified office hours. Every effort will be made to respond to emails within 24 hours during the week, but this is not guaranteed. Instructor will also be available on Skype during office hours (by appointment). Skype availability may not always be immediate, depending upon the presence of other students in the office. Alternatively, the instructor may be reached by phone.

## **Planned Assignments**

Throughout the semester there will be 6-8 homework assignments. Homework assignments will generally be calculation/design type problems relevant to class discussion. Assignments must be submitted electronically onto TITANium by midnight of the day they are due. Unless specifically indicated by the instructor, assignments should be submitted in a standard readable format (PDF preferred). Calculations or diagrams completed by hand may be scanned and submitted as a PDF, jpeg, or png. Ensure that scanned documents are readable, particularly if using the greenish engineering paper. Assignments must be clearly labeled with the course number, homework assignment number, page number and your name.

## **Examinations**

Examinations will be offered on-campus on a Saturday for those near enough to drive in. Those students not near enough to drive in will need to make arrangements to take the exams at an approved testing center. Anyone missing a scheduled examination must notify the instructor or the department office in advance except for *bona fide* emergencies. An absence must be followed

by a written letter from a medical doctor or other appropriate official. For excused absences, no make-up examinations will be given and the score of the other examination may just be extended, at the discretion of the instructor. Unexcused absences count as if a zero score has been obtained.

### **On-campus Meeting Requirements**

There is no required meeting requirement. However, the option exists for those students within driving distance to take the Midterm and Final exams on campus. Those that do not take the exams on campus will be required to take them at approved testing centers.

### **Technical Support**

In case of technical problems, students may contact the CSUF Help Desk at 657-278-7722.

### **Disability Statement**

If you have a disability or special need for which you are or may be requesting an accommodation, please inform the instructor and contact the Disability Support Services Office, located in University Hall 101, as early as possible in the term. For more information, the Disability Support Services Office can be reached by calling (657) 278-3117 or visiting their website at [www.fullerton.edu/DSS/](http://www.fullerton.edu/DSS/). Confidentiality will be protected.

### **Academic Integrity Statement**

As stated in the CSUF Catalog "**Plagiarism** is defined as the act of taking the specific substance of another and offering it as one's own without giving credit to the source. When sources are used, acknowledgment of the original author or source must be made following standard scholarly practice." It is expected that all work submitted for this course, as well as any other at Cal State Fullerton, will be your own unless properly attributed to another author. All work should be original for this class and specific to the assignment. Unless an assignment is specifically designated a team project, all assignments are expected to be completed individually. If you have any questions, please contact the instructor.

Students who violate university standards of academic integrity are subject to disciplinary sanctions, including failure in the course and suspension from the university. Since dishonesty in any form harms you, other students, and the university, policies on academic integrity are strictly enforced. We expect that you will familiarize yourself with the academic integrity guidelines in the current *Catalog* and *Student Handbook*.

Safeguards, such as verification the identity of students during on-line participation and the exams shall be taken at a proctored place, will be taken to ensure the authenticity of student work.

### **Appropriate On-Line Behavior**

In all of their on-line interactions with the course instructor and their student colleagues, students in this course are expected to exhibit appropriate on-line behavior. Such guidelines have been famously compiled as "netiquette" by Virginia Shea (<http://www.albion.com/netiquette>). In summary:

- Do not write something on-line that would be considered rude or offensive in person;
- Abide by civil and criminal laws (paying for shareware; eschewing piracy);
- Make sure that the content you post is appropriate to the tone and purpose of the domain;
- Respect others' time and bandwidth by being succinct and taking care not to post accidentally;
- Use formal language that is appropriate to a classroom setting;

- Share what you know with others when it is helpful;
- Do not perpetuate extended “flaming”;
- Respect the privacy of others;
- Do not abuse your expert knowledge;
- Be forgiving of others’ mistakes.

You are encouraged to read more about netiquette at <http://www.albion.com/netiquette>

**Emergency Procedures Policy**

During an emergency it is necessary for students to have a basic understanding of their personal responsibilities and the university’s emergency response procedures. In the event of an emergency, please know the safe evacuation routes for your specific building and floor, as well as the evacuation assembly areas for your building. Students can determine the university’s operational status by checking the university’s web site at <http://www.fullerton.edu>, calling the university’s hotline number at 657-519-0911, or tuning in to area radio and television stations. Students should assume that classes will be held unless they hear or read an official closure announcement. In the event of an emergency, please call 911. The campus non-emergency line is 657-278-2515, and the 24-hour recorded emergency information line is 657-519-0911. Additional information on university emergency procedures can be found at [http://www.fullerton.edu/emergencypreparedness/ep\\_students.html](http://www.fullerton.edu/emergencypreparedness/ep_students.html).