Environmental chemistry is a broad and an interdisciplinary subject. In this course, we will focus on aquatic, atmospheric, and analytical aspects of environmental chemistry and provide an opportunity for students to investigate a sub-field of their choice. Prerequisites are one semester of organic chemistry (CHEM 340, C or better) and one semester of analytical chemistry (CHEM 330, C or better).

SIU Online: Most course materials will be distributed and student assignments will be submitted via SIU Online (https://online.siu.edu/).


Grading: 30 % Two Exams  
10 % Review Article Presentation  
20 % Periodic Homework Assignments  
20 % Literature Review  
20 % Final Exam

Topics

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<td>Water Pollution</td>
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Final Exam (Comprehensive) Friday, May 13th 8:00-10:00 AM

Additional topics, scheduled based on time:  
Local tours: Carbondale drinking water and/or wastewater treatment plants
**Exams:** The format of each exam is short answer, short essay questions, and problem solving. No notes or books are allowed, but a calculator may be used. The questions will focus on the topics covered in lecture and the student presentations.

**Review Article Presentation:** Each student will present a summary of a recent review article (2011 or later) in class. Students may select their article from a list distributed by the instructor or they may select an article beyond the list with the approval of the instructor.

The schedule and articles (based on the students’ preferences) will be assigned after the January 29th lecture period. The presentation should include comprehensive discussion of a subfield or problem within environmental chemistry. The presentations must be 19-23 minutes in length and speakers should expect questions afterwards. Powerpoint or other presentation software must be used. A laptop is available upon prior request. For each presentation, students will write quiz questions on their own presentation and complete their peers’ quizzes.

**Periodic Homework Assignments:** 4 - 6 Homework assignments will be made. Homework assignments may include Excel worksheet calculations, short answers, and short essay questions as well as the Literature Review Abstract and Reference List.

**Literature Review:** A literature review of a relevant topic in environmental chemistry is required. Students are expected to gather primary sources for references. Emerging topics or problems are encouraged. The paper should be at least 8 pages but no more than 12 pages in length, not including references, and submitted in .doc, .docx or .pdf format. One inch margins should be used, and the font size should be no larger than 12 points. The ACS style guide (Environmental Science and Technology) should be consulted for citation management.

Due dates for literature review before 5:00 PM (% of grade for literature review) via SIU Online Dropbox.
March 11: submit an abstract for topic approval and reference list for topic approval/feedback
April 15: submit near final draft for peer critique
April 22: submit a critique of one literature review
April 29: incorporate comments from critique and submit final version for a grade

**Final Exam:** A comprehensive final exam will be held on the date and time determined by the University. The format of the final exam will be similar to the 50-minute exams.
IMPORTANT DATES *
Semester Class Begins ......................................................... 01/19/2016
Last day to add a class (without instructor permission) ............ 01/24/2016
Last day to withdraw completely and receive a 100% refund ...... 01/31/2016
Last day to drop a course using SalukiNet ................... 04/03/2016
Last day to file diploma application (for name to appear in Commencement program) ........................................... 02/12/2016
Final examinations ........................................................... 05/09–05/13/2016

Note: For outreach, internet, and short course drop add dates, visit Registrar’s Academic webpage: http://registrar.siu.edu/

SPRING SEMESTER HOLIDAYS
Martin Luther King, Jr.’s Birthday Holiday 01/18/2016
Spring Break 03/12—03/20/2016

WITHDRAWAL POLICY ~ Undergraduate only
Students who officially register for a session may not withdraw merely by the stopping of attendance. An official withdrawal form needs to be initiated by the student and processed by the University. For the proper procedures to follow when dropping courses and when withdrawing from the University, please visit http://registrar.siu.edu/catalog/undergraduatecatalog.html

INCOMPLETE POLICY~ Undergraduate only
An INC is assigned when, for reasons beyond their control, students engaged in passing work are unable to complete all class assignments. An INC must be changed to a completed grade within one semester following the term in which the course was taken, or graduation, whichever occurs first. Should the student fail to complete the course within the time period designated, that is, by no later than the end of the semester following the term in which the course was taken, or graduation, whichever occurs first, the incomplete will be converted to a grade of F and the grade will be computed in the student’s grade point average. For more information please visit: http://registrar.siu.edu/grades/incomplete.html

REPEAT POLICY
An undergraduate student may, for the purpose of raising a grade, enroll in a course for credit no more than two times (two total enrollments) unless otherwise noted in the course description. For students receiving a letter grade of A,B,C,D, or F, the course repetition must occur at Southern Illinois University Carbondale. Only the most recent (last) grade will be calculated in the overall GPA and count toward hours earned. See full policy at http://registrar.siu.edu/catalog/undergraduatecatalog.html

GRADUATE POLICIES
Graduate policies often vary from Undergraduate policies. To view the applicable policies for graduate students, please visit http://gradschool.siu.edu/about-us/grad-catalog/index.html

DISABILITY POLICY
Disability Support Services provides the required academic and programmatic support services to students with permanent and temporary disabilities. DSS provides centralized coordination and referral services. To utilize DSS services, students must come to the DSS to open cases. The process involves interviews, reviews of student-supplied documentation, and completion of Disability Accommodation Agreements.
http://disabilityservices.siu.edu/

PLAGIARISM
Student Conduct Code http://srr.siu.edu/student_conduct_code/

MORRIS LIBRARY HOURS
http://www.library.siu.edu/about

SAFETY AWARENESS FACTS AND EDUCATION
Title IX makes it clear that violence and harassment based on sex and gender is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here: http://safe.siu.edu

SALUKI CARES
The purpose of Saluki Cares is to develop, facilitate and coordinate a university-wide program of care and support for students in any type of distress—physical, emotional, financial, or personal. By working closely with faculty, staff, students and their families, SIU will continue to display a culture of care and demonstrate to our students and their families that they are an important part of the community. For Information on Saluki Cares: (618) 453-5714, or siucares@siu.edu, http://salukicares.siu.edu/index.html

EMERGENCY PROCEDURES
Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. We ask that you become familiar with the SIU Emergency Response Plan and Building Emergency Response Team (BERT) programs. Emergency response information is available on posters in buildings on campus, available on BERT’s website at www.bert.siu.edu. Department of Safety’s website at www.dps.siu.edu (disaster drop down) and the Emergency Response Guideline pamphlet. Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency.

INCLUSIVE EXCELLENCE
SIU contains people from all walks of life from many different cultures and sub-cultures, and representing all strata of society, nationalities, ethnicities, lifestyles, and affiliations. Learning from and working with people who differ is an important part of education as well as an essential preparation for any career. For more information please visit: http://www.inclusiveexcellence.siu.edu/

LEARNING AND SUPPORT SERVICES
Help is within reach. Learning support services offers free tutoring on campus and math labs. To find more information please visit the Center for Learning and Support Services website:

Tutoring: http://tutoring.siu.edu/
Math Labs http://math.siu.edu/courses/course-help.php

WRITING CENTER
The Writing Center offers free tutoring services to all SIU students and faculty. To find a Center or Schedule an appointment please visit http://write.siu.edu/

AFFIRMATIVE ACTION & EQUAL OPPORTUNITY
Our office's main focus is to ensure that the university complies with federal and state equity policies and handles reporting and investigating of discrimination cases. For more information visit: http://diversity.siu.edu/

Additional Resources Available:

SALUKINET: https://salukinet.siu.edu/ep/home/displaylogin

ADVISEMENT: http://advisement.siu.edu/

PROVOST & VICE CHANCELLOR: http://pvcaa.siu.edu/

SIU ONLINE: http://online.siu.edu/

Spring 2016 R O’Rourke