

**CHEM 3504, Intro Environmental Chemistry**  
**Fall-2023 (TR: 11:00 – 12:20 am)**

**Instructor:** Dr. J. SHAO

**Phone, Office, Email:** (940) 397-4463  
Bolin Science Hall, 307E  
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*Teaching materials can be downloaded from D2L.*

**Office Hours:** 9:00 – 11:00 pm (TR); 1:00 – 3:00 pm (T)

**Text(s): Required:** *Chemistry of the Environment: Spiro, Purvis-Roberts, Stigliani, 3<sup>rd</sup> ed., Published by University Science Books, 2012*

**Prerequisites:** CHEM 1241 and 1243

**Grading Procedure:**

3 One-hour Exams @ 100 pts each	300 (42.8%)
Final Exam @ 200 pts	200 (28.6%)
10 Pop Quizzes @ 20 pts each	200 (28.6%)

**Grading Scale:**

A: > 90%; B: 80 – 89%; C: 70 – 79 %; D: 55 – 69 %; F < 55% (of total points)

**Attendance Policy:**

Attendance is required as stated in the Student Handbook. Excessive unexcused absences will result in an instructor drop with a grade of “F”. **Under no circumstances will make-up exams or extra assignments be given. Make-up for major exams will be given for *excused absence only*.**

**General description of this course:**

A systematic study of the important chemical principles applicable to different environmental systems; including considerations of the sources, detection, treatment and prevention of air, water, and soil pollution.

**Academic Dishonesty:**

Cheating on any exam, quiz or lab report will be regarded as academic dishonesty and will be subject to a final course grade of “F”.

### Tentative Lecture Schedule (changes may be made)

Date(s)	Chapter	Topic
Aug 29 – 31	1 & 2	Sustainability and Green Chemistry
Sept 05 – 12	7 & 8	Energy Flow and Fossil Fuels
Sept 14 – 19	9	Nuclear Energy
Sept 21 – 26	10 & 11	Renewable Energy and Energy Utilization
Sept 28	TEST-1	Chapters 1, 2, 7 – 11
Oct 03 – 05	3	Earth's Atmosphere
Oct 10 – 12	4	Global Warming and Climate Change
Oct 17 – 19	5	Chemistry of Troposphere
Oct 24 – 26	6	Chemistry of Stratosphere
Oct 31	TEST-2	Chapters 3 – 6
Nov 02 – 07	12	Water Resources
Nov 09 – 14	13	Water Pollution and Treatment
Nov 16 – 28	14	Planet Earth: Rocks, Life and Energy
Nov 23	No Class	Thanksgiving Holiday
Nov 30 – Dec 05	15	Earth's Soil and Agriculture: Feeding the Earth's People
Dec 07	TEST-3	Chapters 12 – 15
Dec 12	Final Test	Comprehensive, 1:00 – 3:00 pm (Bolin-304)

Classes begin..... August 28, 2023  
 Change of Schedule or Late Registration..... August 28-31, 2023  
 Labor Day Holiday - No classes..... September 04, 2023  
 Deadline for December graduates to file for graduation.....September 25, 2023  
 Last day to drop with a "W" – Drops after this date will receive grades of "F" .....October 30, 2023  
 Thanksgiving Holiday .....November 22-24, 2023  
 Classes resume.....November 27, 2023  
 Last day of classes..... December 08, 2023  
 Final examinations..... December 11-14, 2023  
 Commencement..... December 16, 2023

### **Campus-Carry Rules:**

*Senate Bill 11 passed by the 84th Texas Legislature allows licensed handgun holders to carry concealed handguns on campus, effective August 1, 2016. Area excluded from concealed carry are appropriately marked, in accordance with state law. For more information regarding campus carry, please refer to the University's webpage at <http://mwsu.edu/campus-carry/rules-policies>.*