2990 Chemical Technician Seminar

Edward B. Walker

Professor of Chemistry

Contact Information

Weber State University	Office: TY255P	0 : 801-626-6162	ewalker@weber.edu
2503 University Circle, Ogden, U	tah, 84408-2503		http://faculty.weber.edu/ewalker

Office Hours: M,T,W,F 10:30-11:00am (LL011), 11:00-11:30am (TY255P); T,W 1:30-2:30pm (TY255P) (or by Appt.)

Course Objectives

- 1. Students will be introduced to terminology and methods unique to industrial laboratories.
- 2. Students will develop problem-solving skills encountered in day-to-day operations of analytical laboratories.
- 3. Students will become proficient in understanding procedures as described in official methods of analysis.
- 4. Students will learn the fundamentals of "Good Laboratory Practice" (GLP), including authoring of Standard Operating Procedures (SOPs), validations (IQ,OQ, PQ) of instruments, and calibration techniques.
- 5. Students will learn proper techniques of maintaining laboratory notebooks and electronic records.
- 6. Students will learn the importance of teamwork and sharing responsibilities in a laboratory setting.
- 7. When possible, students will visit corporate and/or governmental laboratories as a group.
- 8. Students will develop skills for finding and implementing official methods of analysis from a variety of sources, including journals, official compendia, and on-line sites.
- 9. Students will learn to prepare proper resumes appropriate for finding employment at the chemistry technician entry level.

Grading Policy

- 1. Grades will be determined to a great extent on class participation. Communication skills and technical terminology will be integrated during extensive discussions and interactive learning activities.
- 2. Formal, written communication skills are critical in the modern chemical laboratory and as such will also be used to evaluate performance. Written assignments involving calculations, reports, example laboratory reports, formal CofA's, and other similar assignments will be utilized in student assessment.
- 3. Evaluation of students' ability to find and understand methods of analysis in scientific publications and official compendia will also be part of assessment and grading.
- 4. Participation in special group or individual visits to outside laboratories will also be given credit as part of students' grades.
- 5. No formal, written exams will be given.
- 6. All assignments will be submitted electronically through WSU's Canvas teaching support system. Handwritten assignments must be scanned and submitted electronically as *easily-readable images* in *.pdf* or *.doc/.docx* format.
- Smart phone apps such as (<u>https://www.camscanner.com/</u>) are acceptable if the images are of high quality. <u>Combine multiple pages into a single file</u>. Work must be submitted by the deadline as listed on Canvas to receive full credit. Submissions up to one week following the deadline will be marked off 10% per day.

NO ASSIGNMENTS WILL BE ACCEPTED MORE THAN ONE WEEK AFTER THE DEADLINE. Scheduled submission dates will be enforced (no late submissions will be allowed.)

8. The following scale will be used to calculate grades, based upon a percentage of total points accumulated as indicated above. There will be no other options available for accumulation of points. Percentages will be rounded to the nearest whole point. At the discretion of the instructor, lower point totals may be used for certain grades. All students in the top 10% of the class will receive at least an "A." There is no limit to the number of "A" grades. All students in this section may earn an "A" grade this semester.

hander of the Bradest this section may cannot be brade this section												
	Α	94-100	B+	87-89	C+	77-79	D+	67-69		E	<60	
	A-	90-93	В	83-86	С	73-76	D	63-66				
			B-	80-82	C-	70-72	D-	60-62				
												1