

Students with physical, sensory, emotional, or medical impairments may be eligible for reasonable accommodations in accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973. All accommodations are coordinated through the Disability Resource Center (DRC) in Room 101 of the University Inn, 797-2444 voice, 797-0740 TTY, or toll free at 1-800-259-2966. Please contact the DRC as early in the semester as possible. Alternate format materials (Braille, large print or digital) can be made available with advance notice.

Hr.	Day	Date	Lecture Topic	Lec	Spkr.	Book	Laboratory Topic
1	M	Aug 29	Course Organization – Intro to ABET accreditation – Survey Results	1	JF		9/1 No labs this week
2	W	Aug 31	Introduction, and History, and Report Writing	1	JF		
3	F	Sep 2	Internship Requirements and Discussion	2	JF		
	M	Sep 5	Monday Sep 7: Labor Day (No Class)				9/8
4	W	Sep 7	Regulations and Standards	3	JF		Practice Problems interpreting standards
5	F	Sep 9	Epi, Tox, and Review of Standards (PELs, TLVs, STEL, C, skin)	4	JF		
6	M	Sep 12	Organic Solvents	5	JF		9/15 Carcinogen and other Toxicity References
7	W	Sep 14	Metals	6	JF		
8	F	Sep 16	Dusts and Pneumoconiosis	7	JF		
9	M	Sep 19	FIRST ONE-HOUR EXAM (Lectures 1-7)		JF		9/22 ACGIH TLV Book Lab Exercise
10	W	Sep 21	Biological Hazards	8	JF		
11	F	Sep 23	IAQ	9	JF		
12	M	Sep 26	Dermal Exposures, and Dermatoses	10	JF		Thursday 9/29 @ 12:30 3 rd Gen Machine 1435 North 200 West
13	W	Sep 28	Pesticides	11	JF		
14	F	Sep 30	Personal Protective Equipment	12	JF		
15	M	Oct 3	Chemical Protective Clothing	13	JF		Thursday 10/6 @ 12:30 Casper Ice Cream 11805 N 200E Richmond, UT
16	W	Oct 5	Administrative Controls	14	JF		
17	F	Oct 7	Recognition of Health Hazards, and Quarrying and Mining	15	JF	Ch. 1,25,26	
18	M	Oct 10	SECOND ONE-HOUR EXAM (Lectures 8-14)				No Labs, Utah Conference on Safety & IH Oct 12-14 Written Assignment
19	W	Oct 12	McWane Video or Guest Speaker – Written Assignment for Lab	15	JF		
20	F	Oct 14	No Class – Utah Conference on Safety and Industrial Hygiene				
21	M	Oct 17	Quarrying and Mining Continued	15	JF	Ch. 25-26	No Lab Thursday 10/22 @ 12:30 Pepperidge Farms 901 N Hwy 91 Richmond, UT
22	W	Oct 19	Quarrying and Mining Continued	16	JF	Ch. 25-26	
23	Th	Oct 20	Smelting Process, and Aluminum, Iron, and Steel Production	17	JF	Ch. 27 & 2	
	F	Oct 21	Fall Break – No Class, attend class on Thursday				
24	M	Oct 24	Metal Fabrication with Foundry and Forging	18	JF	Ch. 7-8	Thursday 10/27 @ 12:30 Vulcraft 1875 Promontory Rd Brigham City, UT
25	W	Oct 26	Metal Machining, Welding, and Soldering	19	JF	Ch. 9,10, 22	
26	F	Oct 28	Heat Treating and Nondestructive Testing	20	JF	Ch. 11-12	
27	M	Oct 31	THIRD ONE-HOUR EXAM (Lectures 15-20)		JF		Thursday 11/3 @12:00 NUCOR Steel, Plymouth, UT Need TA for Motor Pool
28	W	Nov 2	Respirators – Principles	21	JF		
29	F	Nov 4	Respirators – Selection	22	JF		
30	M	Nov 7	Respirators – Programs	23	JF		Thursday 11/10 @12:30 TTM Circuit Boards 710 N 600 W Logan, UT
31	W	Nov 9	Electroplating and Thermal Spraying, and Paint	24	JF	Ch. 13-15, 20	
32	F	Nov 11	Abrasives and Abrasive Blasting, and Acid and Alkali Cleaning	25	JF	Ch. 3, 30, 4	

33	M	Nov 14	Metal Degreasing, Grinding, Polishing, Buff	26	JF	Ch. 5-6	Respirator Lab (Qualitative) Tues 11/15 & Thursday 11/17
34	W	Nov 16	Chemicals Processing and Acids	27	JF	Ch. 16, 19	
35	F	Nov 18	Microelectronics and Batteries	28	JF	Ch. 23, 24	
36	M	Nov 21	FOURTH ONE-HOUR EXAM (Lectures 21 – 28)		JF		Thursday 11/24 No Lab
	W	Nov 23	Thanksgiving (no class)				
	F	Nov 25	Thanksgiving (no class)				
37	M	Nov 28	Petroleum	29	JF	Ch. 17	Respirator Lab (Quantitative) Tues 11/29 & 12/1
38	W	Nov 30	Rubber and Plastics	30	JF	Ch. 18	
39	F	Dec 2	Asbestos and construction	31	JF	Ch. 28	
40	M	Dec 5	Ergo 1	32	JF		Ergo Lab Thursday 12/8 Don Boswick
41	W	Dec 7	Ergo 2	33	JF		
42	F	Dec 9	Ergo 3 – Don Boswick and Final Review	34	DB		
43	M	Dec 12	Finals Week: Comprehensive Final Exam: Monday 7:30 AM – 9:20 AM		JF		Good Luck

Course Description: Review of industry processes to learn how they work to help ID future hazards associated with these types of industries.

- I. Format: Lecture and discussion
Field Trips and Labs ([Lab/Field Trip fee of \\$75 to cover IH equipment maintenance costs and field trip costs](#))
Short Reports for each field trip and required Lab assignments
4 Exams and a Comprehensive Final

- II. Course Content and Area of Emphasis
Industry definitions and terms
Discussion of specific industry hazards
Site visits to identify real workplace hazards

- III. Contact Info: Instructor: John Flores (email: john.flores@usu.edu) Office Phone: 797-8194; Cell 764-5487
Office: BNR 321; Office Hours – To be posted on door, but if I'm there just knock

- VIII. Required Text: Recognition of Health Hazards in Industry, a review of materials and processes by William A. Burgess
The Occupational Environment – Its Evaluation and Control – AIHA Press

- VIII. Grading:
- | | |
|---|---------------|
| 4 1-hr exams worth 100 points each | 400 pts |
| Final exam worth 300 points (mandatory) | 300 pts |
| 6 Field Trips (attend at least 5; 10 points/field trip) | 50 pts |
| 5 mini-reports, 20 points each | 100 pts |
| Lab attendance, 10 pts each for 6 labs | 60 pts |
| Complete lab work assignments (15 pts each for 6 labs) | <u>90 pts</u> |
| Total | 1000 pts |

- X. Determination of Final Grade:
Grading: 40% Exams: 10% Exam 1, 10% Exam 2, 10% Exam 3, 10% Exam 4,
30% Labs/Field Trips: Labs/FT consist of attendance and Assignment or Report
30% Final Exam

Approximate grading scale: A: ≥ 93%; A-: ≥ 90%; B+: ≥ 87%; B: ≥ 83%; B-: ≥ 80%; C+: ≥ 77%; C: ≥ 73%; C-: ≥ 70%;
D+: ≥ 66%; D: ≥ 60%; ≥ 60% is required to pass.

- XII. Field Trips
6 times during the semester we will go on a field trip. I will try to get a van, but we may have to car pool. Each field trip is worth 10 points, 5 are required, but this gives you an opportunity to get 10 points extra credit.

- XIII. Field Trip Reports
5 reports are required at 20 pts each, but 6 reports can be completed for up to 20 extra credit points.
Purpose of reports: To determine what hazards stood out in your mind, and what next steps as an IH you want to take
Include at least 3 paragraphs. Report should be 1-2 pages, more than 2-pages will not get you a better grade, and you might even lose points. Most managers won't take the time to read more than a 2-page report.
Paragraph 1: brief summary of what the company does (Background or Introduction)
Paragraph 2: ID the 5 major hazards you noticed (Findings or Observations)
Paragraph 3: What are the next steps to address each hazard? (Recommendations or Conclusion)