

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 28	Course Organization, ABET accreditation, Intro, and History	1	JF		Thursday 8/31
2	W	Aug 30	Regulations and Standards and Report Writing	2	JF		Lab 1: Practice Problems interpreting standards
3	F	Sep 1	Personal Protective Equipment	3	JF		
	M	Sep 4	Monday Sep 7: Labor Day (No Class)				Tues 9/5 and Thursday 9/7
4	W	Sep 6	Chemical Protective Clothing	4	JF		Lab 2: Mandatory Respirator Lab (Qualitative)
5	F	Sep 8	Respirators – Principles	5	JF		
6	M	Sep 11	Respirators – Selection	6	JF		Thursday 9/14
7	W	Sep 13	Respirators – Programs and Admin Controls	7/8	JF		McWane Video (Only extra credit opportunity)
8	F	Sep 15	No class – John gone				
9	M	Sep 18	Admin Controls and Internship Requirements and Discussion	8/9	JF		Tues 9/19 & Thursday 9/21
10	W	Sep 20	Epi, Tox, and Review of Standards (PELs, TLVs, STEL, C, skin)	10	JF		Lab 3: Mandatory Respirator Lab (Quantitative)
11	F	Sep 22	FIRST ONE-HOUR EXAM (Lectures 1-8)		JF		
12	M	Sep 25	Organic Solvents	11	JF		Thursday 9/28
13	W	Sep 27	Metals	12	JF		Lab 4: ACGIH TLV Book Lab Exercise
14	F	Sep 29	Dusts and Pneumoconiosis	13	JF		
15	M	Oct 2	Biological Hazards	14	JF		Thursday 10/5
16	W	Oct 4	IAQ	15	JF		Lab 5: Carcinogen and other Toxicity References
17	F	Oct 6	Dermal Exposures, and Dermatoses	16	JF	Ch. 1,25,26	
18	M	Oct 9	Pesticides	17			No Labs Utah Conference on Safety & IH Oct 11-13
19	W	Oct 11	SECOND ONE-HOUR EXAM (Lectures 9-15)		JF		
20	F	Oct 13	No Class – Utah Conference on Safety and Industrial Hygiene				
21	M	Oct 16	Recognition of Health Hazards and Quarrying and Mining	18	JF	Ch. 25-26	No Lab Thursday 10/21 Due to Fall Break
22	W	Oct 18	Quarrying and Mining Continued	19	JF	Ch. 25-26	
23	Th	Oct 19	Quarrying and Mining Continued	19	JF	Ch. 27 & 2	
	F	Oct 20	Fall Break – No Class, attend class on Thursday				
24	M	Oct 23	No Class		JF	Ch. 7-8	Thursday 10/26 @ 12:30 FT 1: 3 rd Gen Machine 1435 North 200 West
25	W	Oct 25	Smelting Process, and Aluminum, Iron, and Steel Production	20	JF	Ch. 9,10, 22	
26	F	Oct 27	Saved slot for a guest speaker		JF	Ch. 11-12	
27	M	Oct 30	Metal Fabrication with Foundry and Forging	21	JF		Thursday 11/2 @12:30
28	W	Nov 1	Metal Machining, Welding, and	22	JF		FT 2: Casper Ice Cream
29	F	Nov 3	Soldering THIRD ONE-HOUR EXAM (Lectures 16-21)		JF		11805 N 200E Richmond, UT
30	M	Nov 6	Heat Treating and Nondestructive Testing	23	JF		Thursday 11/9 @12:30
31	W	Nov 8	Electroplating and Thermal Spraying, and Paint	24	JF	Ch. 13-15, 20	FT 3: TTM Circuit Boards
32	F	Nov 10	Abrasives and Abrasive Blasting, and Acid and Alkali Cleaning	25	JF	Ch. 3, 30, 4	710 N 600 W Logan, UT

33	M	Nov 13	Metal Degreasing, Grinding, Polishing, Buff	26	JF	Ch. 5-6	Thursday 11/16 FT 4: Vulcraft 1875 Promontory Rd Brigham City, UT
34	W	Nov 15	Chemicals Processing and Acids	27	JF	Ch. 16, 19	
35	F	Nov 17	Microelectronics	28	JF	Ch. 23	

36	M	Nov 20	FOURTH ONE-HOUR EXAM (Lectures 22 – 28)		JF		Thursday 11/23 No Lab
	W	Nov 22	Thanksgiving (no class)				
	F	Nov 24	Thanksgiving (no class)				

37	M	Nov 27	Petroleum	29	JF	Ch. 17	Thursday 11/30 FT 5: NUCOR Steel, Plymouth, UT
38	W	Nov 29	Rubber and Plastics	30	JF	Ch. 18	
39	F	Dec 1	Asbestos and construction	31	JF	Ch. 28	

40	M	Dec 4	Ergo 1	32	JF		Thursday 12/7 Lab 6: Ergo Lab Don Blowski
41	W	Dec 6	Ergo 2	33	JF		
42	F	Dec 8	Ergo 3 – Don Blowski and Final Review	34	DB		

43	M	Dec 12	Finals Week: Comprehensive Final Exam: Monday 7:30 AM – 9:20 AM		JF		Good Luck
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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:
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|-------------------------------------------------------------|-----------------|
| 4 1-hr exams worth 100 points each | 400 pts |
| Final exam worth 300 points (mandatory) | 300 pts |
| 5 Field Trips, 10 points/field trip | 50 pts |
| 5 mini-reports, 20 points each | 100 pts |
| Lab attendance and work assignments, 25 pts each for 6 labs | <u>150 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
We will have 5 scheduled field trips. I will get a bus for the trips outside of Cache Valley, but you will drive or carpool for those within the valley. Each field trip is worth 10 points

- XIII. Field Trip Reports
5 reports are required at 20 pts each
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)

- XIV. One extra credit opportunity that can be worth up to 30 pts.