Cover Sheet: Request 13099

EIN 4216 Occupational Safety Engineering

Info

Process	Course New Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Serdar Kirli kirli@ise.ufl.edu
Created	9/26/2018 3:32:41 PM
Updated	10/23/2018 9:11:43 AM
Description of	New course
request	

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	ENG - Industrial and Systems Engineering 011906000	Serdar Kirli	New course request	9/27/2018
No document c					
College	Conditionall Approved	ENG - College of Engineering	Heidi Dublin	Occupational is misspelled on the form and in the request title. Both should be fixed. Course description doesn't need to list the credit. Include both syllabi for undergrad/grad. Remove lecturer column. Submit by noon tomorrow to have this added to the agenda for the 10/11 faculty council meeting.	10/2/2018
No document of					
Department	Approved	ENG - Industrial and Systems Engineering 011906000	Serdar Kirli	Corrected a typo in the request	10/2/2018
No document of				,	
College	Approved	ENG - College of Engineering	Heidi Dublin	Approved by the HWCOE Curriculum Committee and Faculty Council	10/23/2018
		gineering 6905.pdf gineering 4905.pdf			10/2/2018 10/2/2018
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			10/23/2018
No document of	hanges				
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document of	hanges				
Student Academic Support System					

Step	Status	Group	User	Comment	Updated	
No document of	No document changes					
Catalog						
No document changes						
College						
Notified						
No document changes						

Course|New for request 13099

Info

Request: EIN 4216 Occupational Safety Engineering

Description of request: New course Submitter: Serdar Kirli kirli@ise.ufl.edu Created: 10/2/2018 11:30:12 AM

Form version: 4

Responses

Recommended Prefix EIN
Course Level 4
Number 216
Category of Instruction Joint (Ugrad/Grad)
Lab Code None
Course Title Occupational Safety Engineering
Transcript Title Occupational Safety
Degree Type Baccalaureate

Delivery Method(s) On-Campus

Co-Listing Yes

Co-Listing Explanation Graduate students will receive 3-5 peer-reviewed research articles each week associated

with the lecture topic provided by the instructor. The primary aim for research articles is to provide graduate students extra exposure to state-of-the-art occupational safety research methods and results, in addition to the reference book and lecture. Graduate students are expected to review 30-50 articles for this course (i.e. 6905).

By the end of the semester, graduate students will be required to write a 3000-word report on the occupational safety research. In the report they need to cite at least 20 peer-review articles that outside the

scope of the ones they receive from the instructor.

Effective Term Earliest Available Effective Year Earliest Available Rotating Topic? No Repeatable Credit? No

Amount of Credit 3

S/U Only? No

Contact Type Regularly Scheduled

Weekly Contact Hours 3

Course Description Safety history and litigation; accident causation; safety organizations and agencies. Approaches

to occupational safety and risk management. Product defects and safety program development; product liability; consumer product safety commission. Hazard communication standard. Workers' compensation. OSHA safety standards and codes; OSHA record keeping. Common occupational hazards.

Prerequisites instructor permission

Co-requisites none.

Rationale and Placement in Curriculum UF ISE is expanding into the area of Human Systems Engineering. Currently, this area, which is an important sub-discipline of Industrial Engineering, is not represented in the undergraduate curriculum at all.

This course will benefit our students by exposing them to the area of Occupational Safety, filling an important need and making them more well-rounded.

Furthermore, lack of the Human Engineering component in our curriculum has been identified by our ABET mock reviewer as a concern that needs to be addressed.

Course Objectives To develop:

(1) a familiarity with safety and historical litigation;

- (2) knowledge of the pillars of occupational safety and methods for application;
- (3) an understanding of product safety programs and risk management;
- (4) knowledge of hazard communication methods;
- (5) an understanding of Workers' Compensation systems;
- (6) a familiarity with OSHA standards and codes and recordkeeping;
- (7) knowledge of human behavior as related to safety;
- (8) knowledge on industrial hazards and related safety standards; and
- (9) familiarity with safety activities related to accidents.

Course Textbook(s) and/or Other Assigned Reading Required:

Safety and Health for Engineers (3rd edition), Roger L. Brauer, Wiley, 2016 Recommended:

Occupational Safety and Health for Technologists, Engineers, and Managers (9th edition), David L. Goetsch, Pearson, 2018

Weekly Schedule of Topics Week 1:

Introduction and definitions; Injury statistics; History of safety and safety litigation; Safety organizations (professional and certification); Pillars of safety Week 2:

- (a) Accident causation and statistics; Safety agencies (OSHA, DOL)
- (b) Approaches to occupational safety and hygiene; Job safety analysis; Risk management; Risk communication

Week 3:

- (a) Product liability and safety litigation; Product liability terms; History of product liability; Product liability today
- (b) Safety legal terms; Fact witness; Expert witness; Product defects; Legal precedence; Product safety program (development, oversight, evaluation, recordkeeping, literature); Product recalls (c) Product liability handout; Corporate policies; Courtroom liability Week 4:
- (a) Consumer product safety commission; NEISS; Consumer product safety act.
- (b) Hazard communication standard; Chemical hazards; Worker-right-to-know; Labeling; DOT HazMAT; MSDS; Global harmonization system

Week 5:

- (a) Workers' compensation (WC) Components of system; Insurance premiums; Types of injuries; Reporting procedures; Medical treatment
- (b) WC Types of benefits; NC Law; Benefit calculations Week 6:
- (a) OSHAct General Duty Clause; Standards development; Variances; OSHA reporting; Inspections and citations; Examples; Enhanced Enforcement Policy; Appeals and contests; Employer/Employee rights; Keeping up-to-date
- (b) Safety standards and codes General Industry and subparts; Maritime and long shoring; Construction and subparts; Standards organizations; ANSI and UL; Continuum of safety terms Week 7:

Workplace stress – Definition, sources, causes; Relationship with accidents; Reactions; Shiftwork; Circadian rhythms; Safety strategies; Compensation

Week 8: Exam-1

Week 9: Spring Break

Week 10:

OSHA record keeping – Reporting requirements; Logs; Incident rates; Exceptions; Examples Week 11:

Thermal Stress – Body regulation of heat; Heat hazards; Heat Stress Index; Temperature measurement; Heat stress prevention; Cold stress; Cold stress prevention

Electrical Hazards – Regulations; Basics of electricity; Shock; Physiological effects; Static electricity; Hazard types; Prevention and insulation; PPE; Guarding; Grounding; Safe work practices; Voltage testing

Week 13:

Industrial Noise & Vibration Hazards – Definitions; Ear anatomy; Sound properties and pressure; Classes of noise; Combining sources; Measuring sound; Health hazards; Standards and regulations; Guidelines; Dosage calculations; Hearing protection

Week 14:

(a) Fall Hazards and Protection; Types of falls; Causes; Regulations; Walking surfaces and slip measurement; Holes/openings; Guardrails; Stairways; Portable and fixed ladder safety; Fall

protection systems; Swing protection; Scaffolding.

Week 15:

Fire protection – Example incidents; Common myths; Burn classifications; NFPA diamond; Fire triangle; Fire behavior; Fire prevention; Fire load; Vapor volume; Fire classification; Extinguishers; Alarms and hoses; Egress; Safety violations; Types of explosions; Hazards of explosions. Week 16:

Emergency planning – Example plan; Medical response; Standards; Evacuation; Psychological trauma; Disaster recovery

Links and Policies Students Requiring Accommodations

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, https://www.dso.ufl.edu/drc) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Course Evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at https://evaluations.ufl.edu/evals. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results/.

University Honesty Policy

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Student Privacy

There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see: http://registrar.ufl.edu/catalog0910/policies/regulationferpa.html

Campus Resources:

Health and Wellness

U Matter, We Care:

If you or a friend is in distress, please contact umatter@ufl.edu or 352 392-1575 so that a team member can reach out to the student.

Counseling and Wellness Center: http://www.counseling.ufl.edu/cwc, and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Assault Recovery Services (SARS) Student Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or http://www.police.ufl.edu/.

Academic Resources

E-learning technical support, 352-392-4357 (select option 2) or e-mail to Learningsupport@ufl.edu. https://lss.at.ufl.edu/help.shtml.

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling. https://www.crc.ufl.edu/.

Library Support, http://cms.uflib.ufl.edu/ask. Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. https://teachingcenter.ufl.edu/.

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. https://writing.ufl.edu/writing-studio/.

Student Complaints Campus: https://www.dso.ufl.edu/documents/UF Complaints policy.pdf.

On-Line Students Complaints: http://www.distance.ufl.edu/student-complaint-process. **Grading Scheme** Evaluation of Grades

Assignment

Total Points

% of Final Grade Library assignment 25

8.3%

Record keeping exercise 25

8.3%

Midterm Exam

100

33.3%

Worker's compensation benefit calculations

25

8.3%

Noise exposure calculations 25 8.3%

Final Exam

100

33.3%

Total

100%

Grading Policy

90.0 - 100.0 A 4.00 87.0 - 89.9 A- 3.67 84.0 - 86.9 B+ 3.33 81.0 - 83.9 B 3.00 78.0 - 80.9 B- 2.67 75.0 - 79.9 C+ 2.33

75.0 - 79.9 C+ 2.33 72.0 - 74.9 C 2.00 69.0 - 71.9 C- 1.67

Percent Grade Foints

66.0 - 68.9 D+ 1.33 63.0 - 65.9 D 1.00 60.0 - 62.9 D- 0.67

0.00

Instructor(s) Dr. Boyi Hu

0 - 59.9 E

Occupational Safety Engineering

EGN 4905

Class Periods: Days of week, period, and corresponding time of day

Location: N/A
Academic Term: Spring 2019

Instructor:

Name: Boyi Hu

Email Address: boyihu@ise.ufl.edu Office Phone Number: 3522947701

Office Hours: N/A

Teaching Assistants:

Please contact through the Canvas website

N/AN/A

Course Description

Safety history and litigation; accident causation; safety organizations and agencies. Approaches to occupational safety and risk management. Product defects and safety program development; product liability; consumer product safety commission. Hazard communication standard. Workers' compensation. OSHA safety standards and codes; OSHA record keeping. Common occupational hazards.

Course Pre-Requisites / Co-Requisites

With instructor permission.

Course Objectives

To develop:

- (1) a familiarity with safety and historical litigation;
- (2) knowledge of the pillars of occupational safety and methods for application;
- (3) an understanding of product safety programs and risk management;
- (4) knowledge of hazard communication methods;
- (5) an understanding of Workers' Compensation systems;
- (6) a familiarity with OSHA standards and codes and recordkeeping;
- (7) knowledge of human behavior as related to safety;
- (8) knowledge on industrial hazards and related safety standards; and
- (9) familiarity with safety activities related to accidents.

Materials and Supply Fees

N/A

Required Textbooks and Software

- Safety and Health for Engineers (3rd edition)
- Roger L. Brauer
- Wiley, 3rd edition, 2016
- 978-1118959459

Recommended Materials

- Occupational Safety and Health for Technologists, Engineers, and Managers (9th edition)
- David L. Goetsch
- Pearson, 9th edition, 2018
- 978-0134695815

Course Schedule

Week:	Brauer (2016) Reading and Assignments:	Topics:
1	Chapters 1, 2 and	- Introduction and definitions;
	3	Injury statistics; History of
		safety and safety litigation;
		Safety organizations (professional and
		certification); Pillars of safety.
2	Chapters 4 and 5	- Accident causation and
		statistics; Safety agencies
		(OSHA, DOL).
		- Approaches to occupational
		safety and hygiene; Job safety
		analysis; Risk management;
		Risk communication.
		- Library assignment.
		(Begin library assignment.)
3	Chapter 7	- Product liability and safety
		litigation; Product liability terms; History of product
		liability; Product liability
		today.
		- Safety legal terms; Fact
		witness; Expert witness;
		Product defects; Legal
		precedence; Product safety
		program (development, oversight, evaluation,
		recordkeeping, literature);
		Product recalls.
	Chapter 38 (pp.	- Product liability handout;
	558-560)	Corporate policies; Courtroom
		liability.

4	Refer to Lecture	- Consumer product safety
	Notes	commission; NEISS;
		Consumer product safety act.
	Chapter 24	- Hazard communication
		standard; Chemical hazards;
		Worker-right-to-know;
		Labeling; DOT HazMAT;
	Library	MSDS; Global harmonization
	assignment.	system
5	Chapter 6	- Workers' compensation
		(WC) – Components of
		system; Insurance premiums;
		Types of injuries; Reporting
		procedures; Medical
		treatment.
		- WC – Types of benefits; NC
		Law; Benefit calculations.
		(Begin WC assignment.)
6	Refer to Lecture	- OSHAct – General Duty
O .	Notes	Clause; Standards
	11000	development; Variances;
		OSHA reporting; Inspections
		and citations; Examples;
		Enhanced Enforcement
		Policy; Appeals and contests;
		Employer/Employee rights;
		Keeping up-to-date.
	Chapter 5	- Safety standards and codes –
		General Industry and
	1471 <i>J</i>	subparts; Maritime and long
	Workers'	shoring; Construction and
	Compensation benefit	subparts; Standards organizations; ANSI and UL;
	calculations.	Continuum of safety terms.
7	Chapter 31	- Workplace stress –
,	Gliaptel 31	Definition, sources, causes;
		Relationship with accidents;
		Reactions; Shift-work;
		Circadian rhythms; Safety
		strategies; Compensation.
		·
		- Exam Review
8	Exam 1	
9	N/A	(Spring Break)
10	Chapter 8	- OSHA record keeping –
10	Shapter 6	Reporting requirements;
		Logs; Incident rates;
		Exceptions; Examples.

		(Begin record keeping
		exercise.)
11	Chapter 18	- Thermal Stress – Body
	-	regulation of heat; Heat
		hazards; Heat Stress Index;
		Temperature measurement;
		Heat stress prevention; Cold
	Record keeping	stress; Cold stress prevention.
	Exercise.	-
12	Chapter 12	- Electrical Hazards –
		Regulations; Basics of
		electricity; Shock;
		Physiological effects; Static
		electricity; Hazard types;
		Prevention and insulation;
		PPE; Guarding; Grounding;
		Safe work practices; Voltage
		testing.
13	Chapter 23	Industrial Noise & Vibration
		Hazards – Definitions; Ear
		anatomy; Sound properties
		and pressure; Classes of noise;
		Combining sources;
		Measuring sound; Health
		hazards; Standards and
		regulations; Guidelines;
		Dosage calculations; Hearing
		protection.
		(Begin noise assignment.)
14	Chapter 11	- Fall Hazards and Protection
		- Types of falls; Causes;
		Regulations; Walking surfaces
		and slip measurement;
		Holes/openings; Guardrails;
		Stairways; Portable and fixed
		ladder safety; Fall protection
		systems; Swing protection;
	Noise exposure	Scaffolding.
	calculations.	
15	Chantor 16	- Fire protection – Example
13	Chapter 16	incidents; Common myths;
		Burn classifications; NFPA
		diamond; Fire triangle; Fire
		behavior; Fire prevention;
		Fire load; Vapor volume; Fire
		classification; Extinguishers;
		Alarms and hoses; Egress;
		Safety violations; Types of
		explosions; Hazards of
		explosions, nazarus or explosions.
		explosions.
	l .	

38 (pp. 564-566)	Example plan; Medical response; Standards; Evacuation; Psychological trauma; Disaster recovery.
(Study on-line exam review.)	- Exam Review

Attendance Policy, Class Expectations, and Make-Up Policy

Excused absences are consistent with university policies in the undergraduate catalog (http://gradcatalog.ufl.edu/content.php?catoid=10&navoid=2020#attendance) and require appropriate documentation.

Evaluation of Grades

Assignment	Total Points	Percentage of Final Grade
Library assignment	25	8.3%
Record keeping exercise	25	8.3%
Midterm Exam	100	33.3%
Worker's compensation benefit calculations	25	8.3%
Noise exposure calculations	25	8.3%
Final Exam	100	33.3%
Total		
		100%

Grading Policy

Percent	Grade	Grade
		Points
90.0 - 100.0	Α	4.00
87.0 - 89.9	A-	3.67
84.0 - 86.9	B+	3.33
81.0 - 83.9	В	3.00
78.0 - 80.9	B-	2.67
75.0 - 79.9	C+	2.33
72.0 – 74.9	С	2.00
69.0 - 71.9	C-	1.67
66.0 - 68.9	D+	1.33
63.0 - 65.9	D	1.00
60.0 - 62.9	D-	0.67
0 - 59.9	Е	0.00

More information on UF grading policy may be found at:

http://gradcatalog.ufl.edu/content.php?catoid=10&navoid=2020#grades

Students Requiring Accommodations

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Course Evaluation

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Boyi Hu, 2019 Spring

of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results/.

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Software Use

All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

Student Privacy

There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see: http://registrar.ufl.edu/catalog0910/policies/regulationferpa.html

Campus Resources:

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If you or a friend is in distress, please contact <u>umatter@ufl.edu</u> or 352 392-1575 so that a team member can reach out to the student.

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Sexual Assault Recovery Services (SARS)

Student Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or http://www.police.ufl.edu/.

Academic Resources

E-learning technical support, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. https://lss.at.ufl.edu/help.shtml.

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling. https://www.crc.ufl.edu/.

Library Support, http://cms.uflib.ufl.edu/ask. Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. https://teachingcenter.ufl.edu/.

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. https://writing.ufl.edu/writing-studio/.

Student Complaints Campus: https://www.dso.ufl.edu/documents/UF Complaints policy.pdf.

On-Line Students Complaints: http://www.distance.ufl.edu/student-complaint-process.

Occupational Safety Engineering

EGN 6905

Class Periods: N/A Location: N/A Academic Term: Spring 2019

Instructor:

Name: Boyi Hu

Email Address: boyihu@ise.ufl.edu Office Phone Number: 3522947701

Office Hours: N/A

Teaching Assistants:

Please contact through the Canvas website

N/AN/A

Course Description

Safety history and litigation; accident causation; safety organizations and agencies. Approaches to occupational safety and risk management. Product defects and safety program development; product liability; consumer product safety commission. Hazard communication standard. Workers' compensation. OSHA safety standards and codes; OSHA record keeping. Common occupational hazards.

Course Pre-Requisites / Co-Requisites

With instructor permission.

Course Objectives

To develop:

- (1) a familiarity with safety and historical litigation;
- (2) knowledge of the pillars of occupational safety and methods for application;
- (3) an understanding of product safety programs and risk management;
- (4) knowledge of hazard communication methods;
- (5) an understanding of Workers' Compensation systems;
- (6) a familiarity with OSHA standards and codes and recordkeeping;
- (7) knowledge of human behavior as related to safety;
- (8) knowledge on industrial hazards and related safety standards; and
- (9) familiarity with safety activities related to accidents.

Materials and Supply Fees

N/A

Required Textbooks and Software

- Safety and Health for Engineers (3rd edition)
- Roger L. Brauer
- Wiley, 3rd edition, 2016
- 978-1118959459

Recommended Materials

- Occupational Safety and Health for Technologists, Engineers, and Managers (9th edition)
- David L. Goetsch
- Pearson, 9th edition, 2018
- 978-0134695815

Course Schedule

Week:	Brauer (2016) Reading and Assignments:	Topics:
1	Chapters 1, 2 and	- Introduction and definitions;
	3	Injury statistics; History of
	Extra reading	safety and safety litigation;
	materials	Safety organizations
	prepared by the	(professional and
	instructor.	certification); Pillars of safety.
2	Chapters 4 and 5	- Accident causation and
	F . 1.	statistics; Safety agencies
	Extra reading materials	(OSHA, DOL).
	materials prepared by the	Approaches to assumational
	instructor.	- Approaches to occupational safety and hygiene; Job safety
	mstructor.	analysis; Risk management;
		Risk communication.
		- Library assignment.
		(Begin library assignment.)
3	Chapter 7	- Product liability and safety
		litigation; Product liability
	Extra reading	terms; History of product
	materials	liability; Product liability
	prepared by the	today.
	instructor.	- Safety legal terms; Fact
		witness; Expert witness;
		Product defects; Legal
		precedence; Product safety
		program (development,
		oversight, evaluation,
		recordkeeping, literature);
		Product recalls.
	Gl	- Product liability handout;
	Chapter 38 (pp. 558-560)	Corporate policies; Courtroom liability.
	<u> </u>	Hability.

4	Chapter 24	- Consumer product safety commission; NEISS;
	Extra reading	Consumer product safety act.
	materials	Hagard communication
	prepared by the	- Hazard communication
	instructor.	standard; Chemical hazards;
	Library	Worker-right-to-know;
	Library	Labeling; DOT HazMAT;
	assignment.	MSDS; Global harmonization system
5	Chapter 6	- Workers' compensation
3	Chapter o	(WC) – Components of
		system; Insurance premiums;
	Extra reading	Types of injuries; Reporting
	materials	procedures; Medical
	prepared by the	treatment.
	instructor.	- WC – Types of benefits; NC
	moti detoi.	Law; Benefit calculations.
		(Begin WC assignment.)
		(208
6	Chapter 5	- OSHAct – General Duty
	1	Clause; Standards
	Extra reading	development; Variances;
	materials	OSHA reporting; Inspections
	prepared by the	and citations; Examples;
	instructor.	Enhanced Enforcement
		Policy; Appeals and contests;
		Employer/Employee rights;
	Workers'	Keeping up-to-date.
	Compensation	
	benefit	- Safety standards and codes –
	calculations.	General Industry and
		subparts; Maritime and long
		shoring; Construction and
		subparts; Standards
		organizations; ANSI and UL; Continuum of safety terms.
7	Chapter 31	- Workplace stress –
,	Chapter 31	Definition, sources, causes;
		Relationship with accidents;
	Extra reading	Reactions; Shift-work;
	materials	Circadian rhythms; Safety
	prepared by the	strategies; Compensation.
	instructor.	The second secon
		- Exam Review
8	Exam 1	
9	N/A	(Spring Break)
10	Chapter 8	- OSHA record keeping –
		Reporting requirements;
		Logs; Incident rates;
		Exceptions; Examples.

		(Begin record keeping exercise.)
11	Chapter 18	- Thermal Stress – Body
		regulation of heat; Heat
	5 peer-review	hazards; Heat Stress Index;
	research papers	Temperature measurement;
	prepared by the	Heat stress prevention; Cold
	instructor.	stress; Cold stress prevention.
		, 1
	Record keeping	
	Exercise.	
	Begin semester	
	literature review	
	project.	
12	Chapter 12	- Electrical Hazards –
	1	Regulations; Basics of
	5 peer-review	electricity; Shock;
	research papers	Physiological effects; Static
	prepared by the	electricity; Hazard types;
	instructor.	Prevention and insulation;
	moti detoi:	PPE; Guarding; Grounding;
		Safe work practices; Voltage
		testing.
13	Chapter 23	Industrial Noise & Vibration
13	Ghapter 25	Hazards – Definitions; Ear
	5 peer-review	anatomy; Sound properties
	research papers	and pressure; Classes of noise;
	prepared by the	Combining sources;
	instructor.	Measuring sound; Health
	mstructor.	hazards; Standards and
		regulations; Guidelines;
		Dosage calculations; Hearing
		protection.
1.4	Cl	(Begin noise assignment.)
14	Chapter 11	- Fall Hazards and Protection
		- Types of falls; Causes;
	5 peer-review	Regulations; Walking surfaces
	research papers	and slip measurement;
	prepared by the	Holes/openings; Guardrails;
	instructor.	Stairways; Portable and fixed
		ladder safety; Fall protection
	Noise exposure	systems; Swing protection;
	calculations.	Scaffolding.
15	Chapter 16	- Fire protection – Example
13	Shaptor 10	incidents; Common myths;
	5 peer-review	Burn classifications; NFPA
	research papers	diamond; Fire triangle; Fire
	prepared by the	behavior; Fire prevention;
	instructor.	_ =
	msu uctor.	Fire load; Vapor volume; Fire
		classification; Extinguishers;
		Alarms and hoses; Egress;

	Semester literature review project due.	Safety violations; Types of explosions; Hazards of explosions.
16	Chapters 29 and 38 (pp. 564-566)	- Emergency planning – Example plan; Medical response; Standards; Evacuation; Psychological trauma; Disaster recovery.
		- Exam Review

You will receive 3-5 peer-reviewed research articles each week that associated with the lecture topic provided by the instructor. The primary aim for these research articles is to provide you with extra exposure to state-of-the-art occupational safety researches methods and results, in addition to the reference book and lecture. By the end of the semester, you will be required to write a 3000 words report on the occupational safety research. In the report you will need to cite at least 20 peer-review articles that are outside the scope of the ones you received from the instructor.

Attendance Policy, Class Expectations, and Make-Up Policy

Excused absences are consistent with university policies in the undergraduate catalog (http://gradcatalog.ufl.edu/content.php?catoid=10&navoid=2020#attendance) and require appropriate documentation.

Evaluation of Grades

Assignment	Total Points	Percentage of Final Grade
Library assignment	25	6.25%
Record keeping exercise	25	6.25%
Midterm Exam	100	25%
Worker's compensation benefit calculations	25	6.25%
Noise exposure calculations	25	6.25%
Literature review project	100	25%
Final Exam	100	25%
Total		
		100%

Grading Policy

Percent	Grade	Grade Points
90.0 - 100.0	A	4.00
87.0 - 89.9	A-	3.67
84.0 - 86.9	B+	3.33
81.0 - 83.9	В	3.00
78.0 - 80.9	B-	2.67
75.0 - 79.9	C+	2.33
72.0 – 74.9	С	2.00
69.0 - 71.9	C-	1.67
66.0 - 68.9	D+	1.33
63.0 - 65.9	D	1.00
60.0 - 62.9	D-	0.67
0 - 59.9	Е	0.00

More information on UF grading policy may be found at: http://gradcatalog.ufl.edu/content.php?catoid=10&navoid=2020#grades

Students Requiring Accommodations

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, https://www.dso.ufl.edu/drc) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Course Evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at https://evaluations.ufl.edu/evals. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results/.

University Honesty Policy

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Software Use

All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

Student Privacy

There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see: http://registrar.ufl.edu/catalog0910/policies/regulationferpa.html

Campus Resources:

Health and Wellness

U Matter, We Care:

If you or a friend is in distress, please contact <u>umatter@ufl.edu</u> or 352 392-1575 so that a team member can reach out to the student.

Counseling and Wellness Center: http://www.counseling.ufl.edu/cwc, and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Assault Recovery Services (SARS)

Student Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or http://www.police.ufl.edu/.

Academic Resources

E-learning technical support, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. https://lss.at.ufl.edu/help.shtml.

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling. https://www.crc.ufl.edu/.

Library Support, http://cms.uflib.ufl.edu/ask. Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. https://teachingcenter.ufl.edu/.

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. https://writing.ufl.edu/writing-studio/.

Student Complaints Campus: https://www.dso.ufl.edu/documents/UF Complaints policy.pdf.

On-Line Students Complaints: http://www.distance.ufl.edu/student-complaint-process.