



Soules College of Business
Department of Technology
TECH 3344 Industrial Safety
Course Syllabus

Instructor: Dominick E. Fazarro, Ph.D.
Section: 001
Fall Semester 2024
Class Time: Wednesday 6pm-8:40pm
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Office Hours: Tu & Th-11am-12pm; 2pm-3pm

Course Content:

The study of environmental health and safety practices as it relates to business and industry. This course will provide useful practical knowledge for workplace safety which is mandated by OSHA. Students will also identify, evaluate and control hazards and potential hazards to prevent or mitigate harm or damage to people property, or the environment.

Required Textbook

C. Ray Asfahl & David W. Rieske (2019). Industrial Safety and Health Management (7th Ed.). Prentice Hall: Upper Saddle River. ISBN-13: 978-0134630564

Course Learning Objectives:

According to the student learning outcomes, students are required to pass exams no lower than 70% and OSHA 30-hour exam no lower than 80%.

Students completing this course should be able to:

Student Learning Outcomes
Students will be able to appreciate the importance of OSHA <i>(by assignment & exam)</i>
Students will be able to appreciate the importance of being a Health/Safety Manager <i>(by assignment & exam)</i>
Students will be able to identify hazards along with hazardous work areas <i>(by assignment & case study)</i>
Students will be able to understand and use the different OSHA forms for recordkeeping <i>(by assignment)</i>
Students will be able to apply different fine amounts (in dollars) and the severity/level of each fine imposed on employer <i>(by assignment)</i>
Students will be able to identify potential hazards and make changes training <i>(by assignment & case study)</i>
Students will be able to conduct safety audits <i>(by assignment, project & exam)</i>

Students will be able to understand hazard communication signs (<i>by assignment, & case study</i>)
Students will be able to identify workable confined spaces (<i>by assignment & case study</i>)
Students will be about to learn required topics for completion of OSHA 30hr card (<i>by assignment, & case study</i>)
Students will be able to pass the OSHA exam (<i>by exam</i>)

Core/Program Competencies

Program Outcomes	TECH 3355
1. Identify the proper materials and manufacturing processes used to fabricate a specific part	
2. Understand and use technical software, data sources, and automation such as CAD, CAM, CNC, PLC's, and robotics	
3. Demonstrate a thorough knowledge of current management and supervisory practices	
4. Prepare well-organized and mechanically correct documents in order to plan production	
5. Apply and follow recommended safety standards	X
6. Understand facility layout and the management of supply chains	

Grading Policy and Criteria to Determine Final Course Grade:

Videos, and guest speakers will be supplemental to the course

Assignments

➤ Assignments/Case Studies	(25%)
➤ Exam	(30%)
➤ OSHA EXAM	(45%)

Grade Scale Breakdown:

A=90 - 100%

B=80 - 89%

C=70 - 79%

D=60 - 69%

F=BELOW 60%

Note: 89.9999999999999999 is still a B

Schedule for semester (Date of topics may be subject to change):

Date/ Assignment Issued	No.	Topic/Activity	Reading (Pgs.) DUE DATE
Aug 28	1	ORIENTATION	-
Aug 28	2	Chapter-1: The Safety and Health Manager	1-13
Aug 28	2	Chapter-2: Development of the Safety and Health Function	14-51
Aug 28	2	Assignment	Sept 4
Sept 4	3	Chapter-3: Concepts of Hazard Avoidance	52-87
Sept 4	3	Chapter-4: Impact of Federal Regulation	88-113
Sept 4	3	Assignment	Sept 11
Sept 11-13	4	EXAM 1(covers chapters 1-4)	-
Sept 11	5	OSHA 30-HOUR TRAINING	-
Sept 11	6	Intro. to OSHA	-
Sep 11	6	Health and Safety Programs (PROJECT ANNOUNCEMENT)	Oct 16
Oct 16	6	Occupational Health	284-313
Oct 16	6	Electrical Safety PPT/ (CHAPTER 17)	443-465
Oct 16	6	Assignment	Oct 23
Sept 25	7	Personal Protective Equipment (PPE) PPT/ (READ CHAPTER 12)	284-313
Sept 25	7	Eye and Face Protection PPT/ (READ CHAPTER 12)	284-313
Sept 25	7	Assignment	Oct 30
Nov 6	8	Confined Space Hazard & Procedures PPT/(READ CHAPTER 12) <i>(lecture will be moved to a future date)</i>	284-313
Nov 6	8	Assignment	Nov 13
Nov 6	8	Means of Egress, Emergency Plan & Fire Protection PPT/ (READ CHAPTER 13)	314-323
Nov 13	9	Walkways and Working Surfaces PPT/ (READ CHAPTER 7)	145-163
Nov 13	9	Assignment	Nov 11
Nov 13	9	Machine Guarding PPT/ (READ CHAPTER 15)	362-410
Nov 13	9	Assignment (In Class)	Nov 13
Nov 13	9	Material Handling PPT/ (READ CHAPTER 14)	328-356
Nov 13	9	Hazard Communication PPT	-
Nov 13	9	Tools (Hand and Power) PPT (Extra Topic)	-
Nov 13	9	Read Chapter and PowerPoints	Nov 20
Nov 20	10	Welding Cutting & Brazing PPT/ (READ CHAPTER 16)	418-435
Nov 20	10	Lockout & Tagout PPT	
Nov 20	10	Flammable and Combustible Liquids* PPT/ (READ CHAPTER 11)	263-283
Nov 20	10	Scavenger Safety Hunt	Dec 1
Nov 20	11	Bloodborne Pathogens PPT	-

Nov 20	11	CASE STUDY	Dec 1
Nov 20	12	Advanced Material Safety (NO ASSIGNMENT)	-
-		THANKSGIVING HOLIDAY (November 25-29)	-
Dec 4		In class review (JEOPARDY)	Dec 4
Dec 11		EXAM (OSHA EXAM)	Dec 11

Description of Exams

Exam 1-The format for test 1 will consist of multiple choice, true and false and essay.

Exam 2-Students will be issued an OSHA exam for receiving the OSHA 30-hour card.

The topics covered for the OSHA 30-hour card are:

- ✓ Intro. to OSHA
- ✓ Electrical Safety
- ✓ Walkways and Working Surfaces
- ✓ Means of Egress and Emergency Plan
- ✓ Personal Protective Equipment (PPE)
- ✓ Machine Guarding
- ✓ Eye and Face Protection
- ✓ Material Handling
- ✓ Hazard Communication
- ✓ Ergonomics
- ✓ Bloodborne Pathogens
- ✓ Confined Space Hazard & Procedures
- ✓ Lockout & Tagout

***There will be a general introduction to OSHA mini test before taking the exam.

TEST WILL BE CLOSED BOOK!!!

The power of the OSHA card

You are responsible for understanding the materials contain in the OSHA 30 training. If you pass the test, the OSHA card demonstrates that you understand the safety knowledge needed to preform you job safely and effectively.

PLEASE READ CAREFULLY!!!!!!

***Thirty hours/1800-minute training will require students to sign in on the official OSHA sign in sheet.

If you miss a training session(s) you cannot continue to pursue the certification.

An alternate test will be given to students so they can still receive a grade for test 2.

*****You MUST pass the OSHA exam with 80 % score to obtain a card!!!!**

*** **Bring \$8 to class to pay for OSHA card.**

*****IF YOU ALREADY POSSESS AN OSHA-30 HOUR CARD, AN ALTERNATE ASSIGNMENT/TEST WILL BE GIVEN.**

Grade Dispute

If you have a disagreement with your final grade, you have **1 week** to resolve it. You must bring all assignments when meeting with the instructor.

Using Canvas for Turning in Assignments

Blackboard will be the tool for communication and turning in assignments. **ALL ASSIGNMENT MUST BE TURNED IN USING CANVAS BY 11PM.** Folders will be created for each assignment to attach your assignments. Each assignment will have a due date. **IF YOU DO NOT MEET THE DUE DATE FOR THE ASSIGNMENT, THE FOLDER WILL DEACTIVATE. THEREFORE, YOU WILL NOT BE ABLE TO TURN YOU ASSIGNMENT. YOU WILL NOT RECEIVE CREDIT.** The only exception to turn in an assignment after the due date is if you are ill (with a written excuse) or technical difficulties. **IT IS YOUR RESPONSIBILITY TO COMMUNICATE WITH TECHNICAL SERVICES TO RESOLVE YOU CANVAS MALFUNCTIONS.**

Dates of Final Exam:

December 9-13, 2024

Date to Withdraw Without Penalty:

November 4, 2024

University Policies and Information

Withdrawing from Class

Students may [withdraw](#) (drop) from this course using the [Withdrawal Portal](#). Withdrawing (dropping) this course can impact your Financial Aid, Scholarships, Veteran Benefits, Exemptions, Waivers, International Student Status, housing, and degree progress. Please speak with your instructors, consider your options, speak with your advisor, and visit the One-Stop Service Center (STE 230) or email enroll@uttyler.edu to get a complete review of your student account and the possible impacts to withdrawing. We want you to make an informed decision. UT Tyler faculty and staff are here for you and often can provide additional support options or assistance. Make sure to carefully [read the implications for withdrawing from a course and the instructions](#) on using the [Withdrawal portal](#)..

Texas law prohibits students from dropping more than six courses during their entire undergraduate career*. The six courses dropped includes those from other 2-year or 4-year Texas public colleges and universities. Consider the impact withdrawing from this class has on your academic progress and other areas, such as financial implications. We encourage you to consult your advisor(s) and Enrollment Services for additional guidance. **CAUTION #1:** Withdrawing before census day does not mean you get a full refund. Please see the [Tuition and Fee Refund Schedule](#). **CAUTION #2:** All international students must check with the [Office of International Programs](#) before withdrawing. All international students are required to enroll full-time for fall and spring terms. **CAUTION #3:** All UT Tyler Athletes must check with the Athletic Academic Coordinator before withdrawing from a course. **CAUTION #4:** All veterans or military-affiliated students should consult with the [Military and Veterans Success Center](#).

* Students who began college for the first time before 2007 are exempt from this law.

Artificial Intelligence Statement

UT Tyler is committed to exploring and using artificial intelligence (AI) tools as appropriate for the discipline and task undertaken. We encourage discussing AI tools' ethical, societal, philosophical, and disciplinary implications. All uses of AI should be acknowledged as this aligns with our commitment to honor and integrity, as noted in UT Tyler's Honor Code. Faculty and students must not use protected information, data, or copyrighted materials when using any AI tool. Additionally, users should be aware that AI tools rely on predictive models to generate content that may appear correct but is sometimes shown to be incomplete, inaccurate, taken without attribution from other sources, and/or biased. Consequently, an AI tool should not be considered a substitute for traditional approaches to research. You are ultimately responsible for the quality and content of the information you submit. Misusing AI tools that violate the guidelines specified for this course is considered a breach of academic integrity. The student will be subject to disciplinary actions as outlined in UT Tyler's Academic Integrity Policy. Refer to the About This Course section of the UT Tyler Syllabus Module for specific information on appropriate use of AI in your course(s).

Final Exam Policy

Final examinations are administered as scheduled. If unusual circumstances require that special arrangements be made for an individual student or class, the Dean of the appropriate college, after consultation with the faculty member involved, may authorize an exception to the schedule. Faculty members must maintain student final examination papers for a minimum of three months following the examination date.

Incomplete Grade Policy

If a student, because of extenuating circumstances, is unable to complete all of the requirements for a course by the end of the semester, then the instructor may recommend an Incomplete (I) for the course. The "I" may be assigned in place of a grade *only when all of the following conditions are met*: (a) the student has been making satisfactory progress in the course; (b) the student is unable to complete all coursework or final exam due to unusual circumstances that are beyond personal control and are acceptable to the instructor, and (c) the student presents these reasons before the time that the final grade roster is due. The semester credit hours for an Incomplete will not be used to calculate the grade point average.

The student and the instructor must submit an Incomplete Form detailing the work required and the time by which the work must be completed to their respective department chair or college dean for approval. The time limit established must not exceed one year. Should the student fail to meet all of the work for the course within the time limit, then the instructor may assign zeros to the unfinished work, compute the course average for the student, and assign the appropriate grade. If a grade has yet to be assigned within one year, then the Incomplete will be changed to an F, or NC. If the course was initially taken under the CR/NC grading basis, this may adversely affect the student's academic standing.

Grade Appeal Policy

Disputes regarding grades must be initiated within sixty (60) days from the date of receiving the final course grade by filing a Grade Appeal Form with the instructor who assigned the grade. A grade appeal should be used when the student thinks the final course grade awarded does not reflect the grades earned on assessments or follow the grading scale as documented in the syllabus. The student should provide the rationale for the grade appeal and attach supporting document about the grades earned. The form should be sent via email to the faculty member who assigned the grade. The faculty member reviews the rationale and supporting documentation and completes the instruction section of the form. The instructor should return the form to the student, even if a grade change is made at this level. If the student is not satisfied with the decision, the student may appeal in writing to the Chairperson of the department from which the grade was issued. In situations where there is an allegation of capricious grading, discrimination, or unlawful actions, appeals may go beyond the Chairperson to the Dean or the Dean's designee of the college from which the grade was issued, with that decision being final. The Grade Appeal form is found in the [Registrar's Form Library](#).

NOTE: The Grade Appeal Form is different from the Application for Appeal form submitted to the Student Appeals Committee, which does not rule on grade disputes as described in this policy.

Disability/Accessibility Services

In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA), the University of Texas at Tyler offers accommodations to students with learning, physical, and/or psychological disabilities. If you have a disability, including a non-visible diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or a history of modifications or accommodations in a previous educational environment, you are encouraged to visit <https://hood.accessiblelearning.com/UTTyler/> and fill out the New Student application. The Student Accessibility and Resources (SAR) office will contact you when your application has been submitted and an appointment with the Assistant Director Student Accessibility and Resources/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at <https://www.uttyler.edu/disability-services>, the SAR office located in the Robert Muntz Library, LIB 460, email saroffice@uttyler.edu, or call 903.566.7079."

Military Affiliated Students

UT Tyler honors the service and sacrifices of our military-affiliated students. If you are a student who is a veteran, on active duty, in the reserves or National Guard, or a military spouse or dependent, please stay in contact with your faculty member if any aspect of your present or prior service or family situation makes it difficult for you to fulfill the requirements of a course or creates disruption in your academic progress. It is important to make your faculty member aware of any complications as far in advance as possible. Your faculty member is willing to work with you and, if needed, put you in contact with university staff who are trained to assist you. The [Military and Veterans Success Center](#)

[\(MVSC\)](#) has campus resources for military-affiliated students. The MVSC can be reached at MVSC@uttyler.edu or via phone at 903.565.5972.

Students on an F-1 Visa

To remain in compliance with Federal Regulations requirements you must do the following:

- Traditional face-to-face classes: Attend classes on the regular meeting days/times.
- Hybrid Classes: Attend all face-to-face classes convened by the instructor according to the schedule set for your specific course.
- Online course: Only one online course can count toward your full-time enrollment. Students are expected to be fully engaged and meet all requirements for the online course.

Academic Honesty and Academic Misconduct

The UT Tyler community comes together to pledge that "Honor and integrity will not allow me to lie, cheat, or steal, nor to accept the actions of those who do." Therefore, we enforce the [Student Conduct and Discipline policy](#) in the Student Manual Of Operating Procedures (Section 8).

FERPA

UT Tyler follows the Family Educational Rights and Privacy Act (FERPA) as noted in [University Policy 5.2.3](#). The course instructor will follow all requirements to protect your confidential information.

Absence for Official University Events or Activities

This course follows the practices related to [Excused Absences for University Events or Activities](#) as noted in the Catalog.

Absence for Religious Holidays

This course follows the practices related to [Excused Absences for Religious Holy Days as noted in the Catalog](#).

Absence for Pregnant Students

This course follows the requirements of Texas Laws SB 412, SB 459, SB 597/HB 1361 to meet the needs of pregnant and parenting students. Part of the supports afforded pregnant students includes excused absences. Faculty who are informed by a student of needing this support should make a referral to the Parenting Student Liaison. NOTE: Students must work with the Parenting Student Liaison in order to receive these supports. Students should reach out to the Parenting Student Liaison at parents@uttyler.edu and also complete the [Pregnant and Parenting Self-Reporting Form](#).

Campus Carry

We respect the right and privacy of students who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <http://www.uttyler.edu/about/campus-carry/index.php>.