The syllabus/schedule are subject to change.

To access COVID-19 information, please visit the Stay Healthy Lions Webpage.

SHCB 330, Human Factors in Occupational Safety
COURSE SYLLABUS: Fall 2022 – Term II

INSTRUCTOR INFORMATION

Instructor: Matthew Moore
Office Location: Online
Office Hours: Email or Telephone or Virtual by Appointment
Office Phone: 903.271.8666
University Email Address: matthew.moore@tamuc.edu
Preferred Form of Communication: “Short Question:” Text Message / “Long Question:” Email
Communication Response Time: Typically, Within 24 Hours

COURSE INFORMATION

Materials
This course has been designed using Open Educational Resources (OER). All materials are embedded within the course and are accessible via the internet. After taking the pretest, students are encouraged to bookmark, download, or save materials provided via the internet for use during quizzes, assignments, and projects in this class.

Supplemental Materials
Links and files will be provided in the document sharing tab within the course.

ORGANIZATION LEADERSHIP PROGRAM DESCRIPTION
The Bachelor of Applied Arts and Sciences in Safety and Health (SHCB) degree is a competency-based program that prepares innovative leaders for employment in an increasingly technological and global society. This program provides opportunities for students to receive credit for what they know and can do already, allows them to accelerate completion of their degree, and — because it is fully online — students are able to plan their study schedule around the rest of their day to complete the coursework.

COURSE DESCRIPTION
This course focuses on ergonomics, man/machine interface, and human efficiency. Students study work-related stress, psychological factors, and Cumulative Trauma Disorders, and solutions are reviewed for common problems found in labor-intensive operations.

STUDENT LEARNING OUTCOMES
Completion of this course provides the student with the knowledge to:
1. Describe the basics of ergonomics.
2. Identify the relationship of anthropometry towards ergonomics.
3. Understanding administrative controls plus stretch and flex programs utilizing ergonomics.
4. Psychophysics and its impact on ergonomics.
5. Understanding office ergonomics and work-related musculoskeletal disorders.
6. Understanding the elements of an Ergonomics Program, how to conduct an ergonomic assessment, and the tools used in an assessment.

REGULAR AND SUBSTANTIVE COURSE INTERACTION
As a general guide, students enrolled in a three semester hour course should spend one hour engaged in instructional activities and two to three hours on out-of-class work per week in a traditional semester. Students are expected to double this effort of engagement given that this course is being delivered in a seven-week term. Educational activities in this course are designed to ensure regular and substantive interaction between students and faculty to ensure that students are able to demonstrate competency.

COURSE REQUIREMENTS

Minimal Technical Skills Needed: Students will need reliable computer and internet access for this course. Students must be able to effectively use myLeo email, myLeo Online D2L, and Microsoft Office.

Instructional Methods: This course is an online course. To be successful in this course, all content and course modules should be read and reviewed. All assignments and quizzes (both graded and not graded) must be completed. Please contact the instructor by email for any assistance.

Email your instructor as soon as you complete your Pre-Test so the instructor can access and grade your work.

Student Responsibilities or Tips for Success in the Course: To be successful in this course, all content and course modules should be read and reviewed. All assignments and quizzes (both graded and not graded) should be completed. Please contact the instructor by email for any assistance.

ASSESSMENT
Students must achieve 80% or higher for the both the Post-Test and Culminating Project to demonstrate competency and pass the course.

Course Pre-Test
The purpose of the Pre-Test is to provide a baseline understanding of your knowledge in this competency. The Pre-Test is required before you begin studying course materials. If you do not make at least 80% on the Pre-Test, students will be expected to complete assignments, quizzes, and other course content to prepare for the Post-Test and culminating project.

<table>
<thead>
<tr>
<th>Content</th>
<th>Description</th>
<th>Value</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Pre-Test</td>
<td>This is the initial assessment in the course to provide a baseline understanding of a student’s knowledge of the course content and competencies. Pretests are taken once and should be</td>
<td>100 points</td>
<td>Required before completing any other work in the course. The grade on the Pre-Test does not count in the final grade for this course.</td>
</tr>
<tr>
<td>Content</td>
<td>Description</td>
<td>Value</td>
<td>Notes</td>
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</tr>
<tr>
<td>Post-Test</td>
<td>Measures your competency of learning outcomes through essay, short answer,</td>
<td>100</td>
<td>Required and you must score 80% or higher. You have up to three</td>
</tr>
<tr>
<td></td>
<td>and multiple-choice questions.</td>
<td>points</td>
<td>attempts.</td>
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<tr>
<td></td>
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<td></td>
<td><strong>DUE: Last day of week 7, Friday by 11:59 PM CST</strong></td>
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</tbody>
</table>

If you score less than 80% on the Post-Test, you will have an opportunity to review the material and retake the Post-Test two additional times. If the posttest score is less than 80% within three attempts, students will receive a grade of “F” in the course and will be required to retake the course in the new term. Students who fail the post-test should review feedback from the instructor before reattempting the post-test.

**Culminating Project**

The project assesses your knowledge of terms and the application of concepts presented in this course. A **score of 80% or higher is required** to demonstrate competency.

<table>
<thead>
<tr>
<th>Content</th>
<th>Description</th>
<th>Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Culminating</td>
<td>Measures your competency of learning outcomes the completion of a</td>
<td>100</td>
<td>Required and you must score 80% or higher. You have up to three</td>
</tr>
<tr>
<td>Project</td>
<td>competency-based project.</td>
<td>points</td>
<td>attempts.</td>
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<td></td>
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<td></td>
<td><strong>DUE DATE if you want feedback for revisions: End of week 6.</strong></td>
</tr>
<tr>
<td></td>
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<td></td>
<td><strong>HARD DUE DATE: Last day of week 7, Friday by 11:59 PM CST</strong></td>
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</tbody>
</table>

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If students score less than 80% on the culminating project, they will have an opportunity to review the material and resubmit the project up to two additional times. If the culminating project is less than 80% within three attempts, students will receive a grade of “F” in the course and will be required to retake the course in the new term.

**GRADING**

A score of 80% or higher on both the Culminating Project and Post-Test is required to demonstrate competency and receive credit for the course. The following items will be used to calculate the final grade in the course.

<table>
<thead>
<tr>
<th>Item</th>
<th>Worth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post-Test</td>
<td>100 points</td>
</tr>
<tr>
<td>Culminating Project Attempt</td>
<td>100 points</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>200 points</strong></td>
</tr>
</tbody>
</table>

**Grading Scale**

- A = 90%-100% (180-200 points)
- B = 80%-89% (160-179 points)
- F = 79% or Below (159 or fewer points)

**TECHNOLOGY REQUIREMENTS**

**LMS**

All course sections offered by Texas A&M University-Commerce have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are the technical requirements.

- Learning Management System (LMS) Requirements: View the [Learning Management System Requirements Webpage](#).
- LMS Browser Support: Learn more on the [LMS Browser Support Webpage](#).
- YouSeeU Virtual Classroom Requirements: Visit the [Virtual Classroom Requirements Webpage](#).

**ACCESS AND NAVIGATION**

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@tamuc.edu.

**Note:** Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a...
backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your Instructor.

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found on the Brightspace Support Webpage.

Interaction with Instructor Statement

This is an online course; therefore, expect most communication to be online as well. Correspondence will always be through university email (your “myLeo” mail) and announcements in myLeo online (D2L). The instructor will make every effort to respond to emails within 24 hours provided the correspondence follows the requirements listed below. Students are encouraged to check university email daily.

All emails from students should include:

- Course name and subject in the subject line (ex. ORGL 3322 – Posttest)
- Salutation
- Proper email etiquette (no “text” emails – use proper grammar and punctuation)
- Student name and CWID after the body of the email

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail online in the Student Guidebook.

Students should also consult the Rules of Netiquette Webpage for more information regarding how to interact with students in an online forum.

TAMUC Attendance

For more information about the attendance policy, please view the Attendance Webpage and the Class Attendance Policy.

Academic Integrity

Students at Texas A&M University-Commerce are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

Undergraduate Academic Dishonesty Policy
Undergraduate Student Academic Dishonesty Form

Students with Disabilities-- ADA Statement
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services
Texas A&M University-Commerce
Velma K. Waters Library Rm 162
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
Email: studentdisabilityservices@tamuc.edu
Website: Office of Student Disability Resources and Services

Nondiscrimination Notice
Texas A&M University-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information, or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Campus Concealed Carry Statement
Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the Carrying Concealed Handguns On Campus document and/or consult your event organizer.

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

Counseling Services
The Counseling Center at A&M-Commerce, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center’s crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit www.tamuc.edu/counsel.
# COURSE OUTLINE / CALENDAR

<table>
<thead>
<tr>
<th>Learning Objectives and Competencies</th>
<th>Materials to Read or Review</th>
<th>Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>LO1: Describe the basics of ergonomics. Basic areas include history, definition, roots of ergonomics.</td>
<td>Readings: Chapter 2</td>
<td>Module Quiz</td>
</tr>
<tr>
<td>LO2: Identify the relationship of anthropometry towards ergonomics.</td>
<td>Readings: Chapter 3</td>
<td>Module Quiz</td>
</tr>
<tr>
<td>LO3: Understanding administrative controls plus stretch and flex programs utilizing ergonomics.</td>
<td>Readings: Chapter 5</td>
<td>Module Quiz</td>
</tr>
<tr>
<td>LO4: Psychophysics and its impact on ergonomics.</td>
<td>Readings: Chapter 8</td>
<td>Module Quiz</td>
</tr>
<tr>
<td>LO5: Understanding office ergonomics and work-related musculoskeletal disorders. (Read both chapters).</td>
<td>Readings: Chapters 4 and 13</td>
<td>Module Quiz</td>
</tr>
<tr>
<td>LO6: Understanding the elements of an Ergonomics Program, the tools used in an ergonomic assessment, and how to conduct an ergonomic assessment.</td>
<td>Readings: Chapter 6 and 14</td>
<td>Submit Culminating Project</td>
</tr>
<tr>
<td>LO7: Mastery of the course.</td>
<td>Review Course Materials</td>
<td>Course Post-Test</td>
</tr>
</tbody>
</table>

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