



EAST TEXAS A&M UNIVERSITY

PSCB 577 –Risk Assessment and Management

COURSE SYLLABUS

Term:	Fall 1	Year:	2026
-------	--------	-------	------

INSTRUCTOR INFORMATION

Instructor Name:	Carl M. DeCarlo
Office Phone:	972-379-8628
A&M Commerce Email Address:	Carl.DeCarlo@etamu.edu
Instructor Notes:	I am committed to your academic success and here to assist you. Likewise, I am accessible - please reach out if I may be of assistance.

Office Location: Online/Remote

Office Hours: Email, Telephone, or Virtual by Appointment

Preferred Form of Communication: Email

Communication Response Time: 24 Hours or Less (Grading of assignments is typically not completed in 24 hours or less)

[CBE Handbook Link](#)

COURSE INFORMATION

Course Materials

This course has been designed using Open Educational Resources (OER) and/or materials that are available through the [Waters Library](#). All materials are embedded within the course or are accessible via the internet or accessible through the Waters Library resource portal. After

taking the pretest, students are encouraged to bookmark, download, or save materials provided via the internet for use with assignments and projects in this class.

Public Safety Program Description

The Master of Science in Public Safety is designed for professionals in law enforcement, emergency management, homeland security, and related fields. This program focuses on developing leadership skills, crisis management strategies, and advanced knowledge of public safety policies and practices.

Course Description

This course introduces risk assessment methodologies in the public safety context. Students will learn to identify, analyze, and mitigate risks through the application of quantitative and qualitative techniques. Using real-world scenarios and case studies, learners will develop skills in threat assessment, vulnerability analysis, and the implementation of risk management strategies to enhance the resilience of public safety organizations and the communities they serve. Prerequisites: PSCB 502, PSCB 505, PSCB 560.

Student Learning Outcomes

Completion of this course provides the student with the knowledge to:

1. Develop and apply comprehensive risk assessment frameworks to systematically identify, analyze, and prioritize potential threats, hazards, and vulnerabilities in diverse public safety contexts.
2. Perform advanced quantitative and qualitative risk analyses, such as probability-impact matrices, fault tree analysis, and scenario planning, to accurately forecast the likelihood and potential impact of risks on public safety operations and community well-being.
3. Design and implement effective risk mitigation strategies, including the allocation of resources, the development of contingency plans, and the integration of risk management into organizational policies and procedures.
4. Evaluate the performance and ongoing effectiveness of risk management initiatives, using appropriate key performance indicators and data-driven evaluation methods to continuously improve the resilience of public safety organizations and the communities they serve.
5. Communicate risk assessment findings and recommended risk management strategies to a wide range of stakeholders, including policymakers, community leaders, and the public, in a clear and compelling manner that fosters transparency and builds public trust.
6. Adapt risk assessment and management frameworks to address emerging public safety challenges, such as cybersecurity threats, climate-related disasters, and evolving terrorist tactics, and propose innovative, evidence-based solutions to enhance the preparedness and adaptability of public safety organizations.

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 can demonstrate competency.

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.

Dropping the Course Due to Failure

Students are NOT allowed to drop a course due to failure in the course. In the event a student does not make 80% or higher on a posttest or culminating project by the third attempt, the student is not allowed to drop the course due to failure. The student is also ineligible to accelerate or re-enroll/re-take the course in the current term.

To drop a course, students must have passing grades in the course or have not attempted any assignments in the course. Please reach out to an academic advisor to drop a course.

STUDENT RESPONSIBILITIES FOR COURSE

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 by the due date specified. Please contact the instructor by email for any assistance or support.

CWID and Password

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.

Technology-Related Issues

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, an ETAMU campus open computer lab, etc.

TECHNOLOGY REQUIREMENTS AND SUPPORT

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.

Learning Management System (LMS) – D2L

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

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

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](#).

COMMUNICATION AND SUPPORT

Interaction with Instructor Statement

This is an online course; therefore, expect most communication to be online as well. If you have any questions or are having difficulties with the course material, please contact your instructor. Correspondence will always be through university email (your “myLeo” mail) and announcements in myLeo online (D2L). **You will not RECEIVE email through D2L, so be sure to check your ETAMU email for communication.** The instructor will make every effort to respond to emails within 24 provided the correspondence follows the requirements listed below. Students are encouraged to check university email daily.

Include the Following in Emails with Instructor:

- Course name and subject in the subject line (ex. EDCB 517 – Posttest)
- Salutation (Good afternoon, Dr. Jackson)
- Proper email etiquette (no “text” emails – use proper grammar and punctuation)
- Student name and CWID after the body of the email (possibly add to student signature on email)

CID Studio

The CID Studio is located in D2L and available to all CID students. The CID Studio contains modules intended to support and inform students on their educational journey.

[CID Studio Link](#) – Please contact your advisor if you need access.

RESPONSE TIME & GRADING TIME IN CBE COURSES

Instructors for competency-based education courses are expected to respond to students in 24 hours. If you are not able to reach your instructor, please reach out to your advisor for help. The grading of assignments in courses will be done in a timely manner, but grading responses will not be returned in 24 hours.

ACCELERATION IN CBE COURSES

Course Load and Acceleration Policy

In accordance with ETAMU Graduate Procedure 13.99.99.R0.38, graduate students may enroll in up to one additional semester credit hour beyond the number of weeks in a term. In a seven-week term, this allows a maximum of 9 semester credit hours (3 courses).

For graduate CBE programs, students begin each seven-week term enrolled in up to 6 semester credit hours (2 courses). After successful completion of both courses, they may request to accelerate into one additional course, not to exceed 9 semester credit hours for the term. To request acceleration, the student must submit to their academic advisor the instructor's email confirmation of course completion. Approval is subject to advisor review and seat availability.

Request to accelerate is initiated and completed by 5:00 pm CST on the fifth Friday of a seven-week academic term.

Acceleration Process:

1. Student successfully completes all required coursework in their CBE courses(s) with a grade of "A" or "B."
2. Student receives emailed verification from the assigned instructor that the course has been satisfactorily completed (Grade of A or B only).
3. Student contacts assigned advisor to provide proof of completion and discuss eligibility for acceleration into another course.

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.

ETAMU Attendance

For more information about the attendance policy, please view the [Attendance Webpage](#) and the [Class Attendance Policy](#)

Academic Integrity

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

[Graduate Student Academic Dishonesty University Procedure 13.99.99.R0.10](#)
[Graduate Student Academic Dishonesty Form](#)

CID Policy on Academic Integrity

Academic dishonesty includes cheating, complicity in cheating, multiple submissions (or substantial portions) of the same work for credit without authorization, submitting another's work, plagiarism, submitting algorithmically (AI) plagiarized work, and other acts that may reasonably be called academic dishonesty.

- Students who commit academic dishonesty will receive a grade of 0 for the assignment in the course and be issued a Written Warning that is reported to the CID Assistant Dean's office and listed in a database.
- If the student does NOT have a previous Written Warning for academic dishonesty reported in CID courses and has additional attempts available for the assignment, the student may resubmit the assignment (this applies to CBE courses only).
- If the student has a Written Warning of academic dishonesty reported in CID courses, the student may NOT resubmit the assignment, and the instructor will follow the procedure detailed in [Policy 13.99.99.R0.10](#) for Graduate Academic Dishonesty and report the incident to the Dean of the Graduate School.

Submitting Past Work

The resubmission of work submitted in a past course is self-plagiarism. Also, the resubmission of substantial parts of work submitted in a past course is self-plagiarism. **If a student would like to resubmit past work or substantial parts of past work, the student must gain permission from the instructor prior to submission and cite the work properly.** If the student does not gain permission and cite the work, then the submission will be flagged for self-plagiarism and result in actions detailed in the CID Policy on Academic Integrity.

Use of Artificial Intelligence

East Texas A&M University acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources

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

East Texas A&M University 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.

A&M-Commerce Supports Students' Mental Health – Counseling Services

The Counseling Center at East Texas A&M University, 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

Mental Health and Well-Being

The university aims to provide students with essential knowledge and tools to understand and support mental health. As part of our commitment to your well-being, we offer access to Telus

Health, a service available 24/7/365 via chat, phone, or webinar. Scan the QR code to download the app and explore the resources available to you for guidance and support whenever you need it.



COURSE ASSESSMENTS

Requirement for Successfully Passing Course

Students must achieve 80% or higher for **every** posttest **and** culminating project to demonstrate mastery of all competencies and pass the course.

Using Remaining Attempts to Improve Grade

Students are permitted to use remaining attempts on a posttest and/or culminating project after scoring 80% or higher to attempt to make a higher score on the assignment. Students are not permitted to exceed 3 attempts for any posttest or culminating project.

- **Must** complete **all** required posttests and culminating project and receive a grade on the assignments before doing additional attempts.
- The **highest** grade achieved on the posttest or culminating project will be used for the **final grade** for the posttest and culminating project.
- Please keep in mind that submitting during the final days and hours of the term means that you may not have time to resubmit or receive feedback.
- Once you have accelerated out of the course and received a completion email, you may not return to the course to resubmit work.

Pretest

The purpose of the pretest is to provide students with a baseline understanding of your knowledge in the competency. Pretests are taken once and should be completed upon the first couple of days of a CBE academic term or entry into a course if a student is an accelerator. The pretest is required before you begin studying course materials. A passing score on the pretest does NOT provide permission to skip required assignments in the course. The grade on the pretest does **not** count in the final grade for this course.

Posttest

At the end of a module or course is a comprehensive exam that assesses student knowledge and understanding of major concepts, theories, processes, etc., in the module or the course. A **score of 80% or higher is required** to demonstrate mastery of the competency. If a student scores

less than 80% on a posttest, the student will have an opportunity to review the material and retake the posttest two additional times. Students who fail the posttest should review feedback from the instructor before reattempting the posttest on another attempt. 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. All posttests in the course have a due date: **Last day of week 7, Friday by 11:59 PM CST.**

Culminating Project

The final project in the course assesses your knowledge of terms and the application of concepts presented in this course. A **score of 80% or higher is required** to demonstrate mastery of each competency. 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. **If you want feedback for revisions, submit by the end of week 6.** Culminating projects have a due date: **Last day of week 7, Friday by 11:59 PM CST.**

GRADING

A score of 80% or higher on the Culminating Project and all Posttests is required to demonstrate mastery of the competencies and receive credit for the course. The following items will be used to calculate the final grade in the course.

Assignment	Points
Module 1 Posttest	100
Module 2 Posttest	100
Module 3 Posttest	100
Module 4 Posttest	100
Module 5 Posttest	40
Module 6 Posttest	100
Culminating Project	100
Total	640

Grading Scale

A = 90%-100%

B = 80%-89%

F = 79% or Below

COURSE OUTLINE / CALENDAR

Suggested Schedule

Competencies	Materials to Read or Review	Assignments
---------------------	------------------------------------	--------------------

Develop and apply comprehensive risk assessment frameworks to systematically identify, analyze, and prioritize potential threats, hazards, and vulnerabilities in diverse public safety contexts.	• Reading 1.1 – THIRA and SPR Guide • Multimedia 1.2 – Risk Management, Process and Approaches, Real Time Examples • Multimedia 1.3 – ISO 31000 Risk Definition, Principles, Framework, and Processes, and How They Affect Objectives • Multimedia 1.4 –Risk Assessment and THIRAs in Emergency Management	• Complete Pretest (once completed, the module contents will open) • Complete Posttest – Must make 80% or higher to successfully pass the course. Three attempts allowed.
Perform advanced qualitative risk analyses, such as probability-impact matrices and scenario planning, to accurately forecast the likelihood and potential impact of risks on public safety operations and community well-being.	• Reading 2.1 – The Trouble with Risk Matrices • Reading 2.2 – What's Right with Risk Matrices • Reading 2.3 – THIRA and SPR Guide • Reading 2.4 – Sendai Framework for Disaster Risk Reduction • Multimedia 2.5 – Rachel Davidson Inaugural Lecture	• Complete Pretest (once completed, the module contents will open) • Complete Posttest – Must make 80% or higher to successfully pass the course. Three attempts allowed.

Utilize quantitative tools to accurately assess risk severity on public safety operations and community well-being by developing and interpreting results for specific hazards. Construct and interpret a simple fault tree for system vulnerabilities. Evaluate the reliability and uncertainty of quantitative outputs.	• Reading 3.1 – On the Quantitative Definition of Risk • Reading 3.2 – Fault Tree Analysis • Reading 3.3 –System Reliability Analysis • Reading 3.4 – Methodology for Assessing Regional Infrastructure Resilience • Multimedia 3.5 – Interpretation & Uses of Probabilities • Multimedia 3.6 – Fault Tree Analysis Explained with Examples	• Complete Pretest (once completed, the module contents will open) • Complete Posttest – Must make 80% or higher to successfully pass the course. Three attempts allowed.
Design and implement effective risk mitigation strategies, including the allocation of resources, the development of contingency plans, and the integration of risk management into organizational policies and procedures. Communicate mitigation strategies effectively to internal and external stakeholders.	• Reading 4.1 – FEMA Local Mitigation Planning Policy Guide • Reading 4.2 – Risk Management Fundamentals.pdf • Reading 4.3 – The Risk Management Process for Federal Facilities • Multimedia 4.4 – Resilient America Roundtable • Multimedia 4.5 – Examining the Hazards	• Complete Pretest (once completed, the module contents will open) • Complete Posttest – Must make 80% or higher to successfully pass the course. Three attempts allowed.

Evaluate the performance and ongoing effectiveness of risk management initiatives using appropriate key performance indicators and data-driven evaluation methods to continuously improve the resilience of public safety organizations and the communities they serve. Communicate evaluation findings and improvement plans clearly to internal and external stakeholders.	• Reading 5.1 – Enhancing Public Sector Enterprise Risk Management Through Interactive Information Processing • Reading 5.2 – After-Action Review User Guide • Multimedia 5.3 – Developing an After Action Report and Improvement Plan • Multimedia 5.4 – After Action Report Development • Multimedia 5.5 – PrepTalks: Dr. Howard Kunreuther: Human Biases: Why People Underprepare for Disasters	• Complete Pretest (once completed, the module contents will open) • Complete Posttest – Must make 80% or higher to successfully pass the course. Three attempts allowed.
Adapt risk assessment and management frameworks to address emerging public safety challenges, proposing innovative, evidence-based solutions to enhance the preparedness and adaptability of public safety organizations. Present a comprehensive risk management plan integrating all competencies.	• Reading 6.1 – DHS National Risk Management Center (NRMC) • Reading 6.2 – Global Assessment Report on Disaster Risk Reduction • Reading 6.3 – Cybersecurity: OMB Should Update Inspector General Reporting Guidance to Increase Rating Consistency and Precision • Reading 6.4 – Homeland Threat Assessment • Multimedia 6.5 – CISA Sounds the Alarm on Cyber Threats to Critical Infrastructure • Multimedia 6.6 – How to Create a Risk Management Plan	• Complete Pretest (once completed, the module contents will open) • Complete Posttest – Must make 80% or higher to successfully pass the course. Three attempts allowed.

Adapt risk assessment and management frameworks to address emerging public safety challenges, proposing innovative, evidence-based solutions to enhance the preparedness and adaptability of public safety organizations. Present a comprehensive risk management plan integrating all competencies.	Culminating Project – Risk Briefing: Comprehensive Risk Assessment, Prioritization, and Mitigation Recommendations	• Required – Must score 80% or higher to successfully pass the course. • Three attempts allowed.
--	--	---

TIPS FOR SUCCESS

- **All assignments must be submitted by 11:59PM/CST on the Friday of Week 7 of the term.**
- A score of 80% or higher on the Culminating Project and all Posttests is required to demonstrate competency and receive credit for the course.
- **Tip:** After a failed attempt at a posttest or the culminating project, review feedback provided by your instructor and/or reach out to your instructor with questions before moving to the next attempt.