



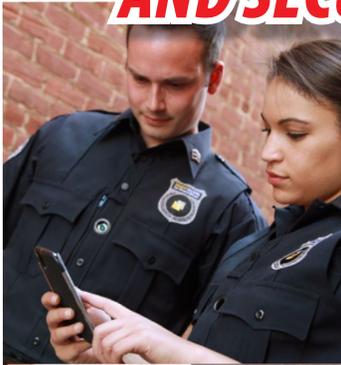
TEXAS TECH UNIVERSITY
 Department of
 Environmental Toxicology™



**THE FOUNDATIONS OF
 HOMELAND DEFENSE
 AND SECURITY**



**Course: FSCI 5252 / Credits: 2
 SPRING 2022**



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Spring 2022

Instructor: Dr. Jan Halamek

Class meeting time and place: Xdays 0:00- 0:00 PM – ENTX, Room: 114

Office hours: Wednesday 1:00-2:30 pm, and by appointment.

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<http://www.tiehh.ttu.edu/dr.-jan-halamek.html>

Course prerequisite: Graduate Student standing.

Course description: This course investigates the interdisciplinary approach to homeland security taken by the United States. We first ask, “Who threatens?” To answer, we will explore the range of threats facing the U.S. originating from abroad as well as at home. Much of our focus will be on terrorism and how it threatens the homeland. We then ask, “Who protects?” Accordingly, we will analyze the structure, capabilities, and functioning of the systems designed to detect, prevent, and disrupt such threats, the laws and policies that govern homeland security, and roles and responsibilities of the various intelligence and homeland security entities. We will examine offensive and defensive measures. Additionally, we will discuss various issues in homeland security including critical infrastructure, cyberattack, weapons of mass destruction (WMD), explosives, firearms and others. As a fully interactive class, in person participation is encouraged and expected. This course is specifically tailored for students in forensic science, chemistry, international relations, political science, criminal justice, and other related disciplines. Students do not need any intelligence or homeland security background to do well in this course.

Expected Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Understand leading principles of intelligence, homeland security, and related technology,
- Explain the nature of terrorism and its many forms,
- Describe the major goals, methods, weapons, tactics, and techniques used by terrorists,
- Describe and understand chemical and biological principles of WMD
- Describe and understand chemical and physical principles of explosives and firearms
- Understand detection and quantification methods used to counter those types of threat
- Understand the historical perspective concerning homeland security threats to the US,
- Describe the roles of the major organizations responsible for homeland security and intelligence related to homeland security
- Explain how homeland security requirements may be reconciled with the US governmental system, and,
- Explain the lessons to be learned from several significant homeland security incidents related to terrorism.

Methods for Assessing Expected Learning Outcomes:

Students will be assessed through answering questions pertaining to homeland security. Students’ knowledge of homeland security topics will significantly increase as the course

progresses through presented lectures. The expected learning outcomes for the course will be determined by the student's performance and completion of requirements by the following methods: (1) Homeland security topic study paper; (2) review of a peer's study paper (3) Class participation and attendance; and (4) three examinations throughout the semester.

This course's format is designed to encourage a robust exchange of ideas and opinions.

Course materials:

Recommended Text:

Audrey Kurth Cronin, James M. Ludes. *Attacking Terrorism; Elements of a Grand Strategy*. Georgetown University Press, 2004
ISBN: 9780878403479 (0878403477)

Mark Sauter, James Carafano. *Homeland Security*
McGraw-Hill Education, 2005
ISBN-13: 978-1260142938

Course Assignments, Requirements & Grading:

Students will participate in a(n):

- 1) Homeland security topic study paper will be individually prepared, including an introduction/literature review, topic description, and discussion of the topic study's strengths and weaknesses. The instructor will distribute a homeland security-related topic for each student to analyze. Topics will be distributed on Nov 1st and turned in on Nov 15th, 2021. The study paper must not exceed 1500 words, excluding footnotes. All papers are expected to be submitted at the beginning of class on the day they are due. No late papers will be accepted. More details regarding assignment will be discussed separately in class. This paper is worth 100 points of the total course grade.
- 2) There will be a total of three (3) examinations covering the material discussed in class discussions. Each is comprised of true/false, matching and short answer essay format.
- 3) First and second, worth 100 points percent of the total grade, scheduled in-class for XX Sept. 2021, and XX Nov. 2021.
- 4) Review of a peer's case study paper (50 points). Students will prepare 15 min presentation, scheduled on XX Nov. 2021, where peer's case study paper will be discussed. Further instructions will be given in class. The purpose of this assignment is: (a) to provide students with more practice in critiquing and evaluating another study paper, and (b) to provide feedback on the study paper. The students' task is to review their peer's study paper and critique the appropriateness of the prepared the study in terms of strengths and weaknesses, and how well the study proposal describes given topic. Further instructions for the assignment will be provided in class.
- 5) There will be a final, **cumulative**, exam, worth 150 points of the total grade, scheduled for TBD.

Incompletes: A grade of "I" will be awarded only by permission of the instructor prior to the end of the semester and only when a small amount of work remains to be completed for

the course. A grade of “I” is awarded only in case of emergency and when class performance at the time of the request is satisfactory. Grades of “I” may be applicable when circumstances beyond the student's control, such as illness or impairment due to an accident, prevent the student from completing course requirements. Poor planning or excessive absences are not valid reasons for requesting a grade of incomplete.

Assignment	Possible Points
Case Study Paper	100
Exam 1	100
Exam 2	100
Final Exam	150
Peer’s Case Study Paper Critique	50
TOTAL	500

FINAL GRADE	<u>Percentage (%)</u>	<u>Total Points</u>
A	≥ 90%	≥ 450
B	80-89.9%	400 – 449
C	70-79.9%	350 – 399
D	60-69.9%	300 – 349
F	≤ 59.9%	≤ 300

Attendance: Attendance to each lecture is **REQUIRED** as not all the material needed for this course can be found in the textbook. Students are expected to attend every lecture session on time. Students are required to contact the instructor prior to any absences. If the student fails to do so then the absence will be counted as unexcused. Acceptable reasons for an excused absence are: (a) family emergency; (b) illness; (c) representing the University at official events; and (d) religious holy days (in accordance with TTU OP 34.19).

****Religious holy days:**

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence. A student who is excused for a religious holy day may not be penalized for the absence; however, the instructor may respond appropriately if the student fails to complete the assignment satisfactorily.

If a student misses a course assignment due to other excused absences, arrangements must be made with the instructor to complete the assignment within an acceptable time period. The instructor must receive advanced written notification for a family emergency or university representation. The instructor must be informed of family emergency or illness absence within 72 hours of the first day of absence due to the event. If written verification for an appropriate excuse is received, the instructor will provide a revised due date for either the original assignment or an alternative assignment of equal value. If the student fails to meet the revised due date, then she/he will be given a zero (0) for the assignment.

Withdrawals: Dates of withdrawal are the responsibility of the student. If illness or other problems keep you from attending class and/or lead to the missing of assignments, it is recommended that you drop the class. You are expected to make all reasonable efforts to notify your instructor (preferably in writing) that you will be missing assignments due to unforeseen circumstances. Be aware of all TTU dates and policies regarding withdrawals.

Special accommodations (TTU OP 34.22): Any student who, because of a disability, may require special arrangements in order to meet the course requirements should contact the instructor as soon as possible to make any necessary arrangements. Students should present appropriate verification from Student Disability Services during the instructor's office hours. Please note: instructors are not allowed to provide classroom accommodations to a student until appropriate verification from Student Disability Services has been provided. For additional information, please contact Student Disability Services in 335 West Hall or call 806-742-2405.

Civility in the Classroom:

<http://www.depts.ttu.edu/studentaffairs/CampusCrime/documents/CivilityInTheClassroom.pdf>

Students are expected to assist in maintaining a classroom environment that is conducive to learning. In order to assure that all students have the opportunity to gain from time spent in class, unless otherwise approved by the instructor, students are prohibited from engaging in any other form of distraction. Language that is disrespectful based on race/ethnicity, sexual orientation, age, gender identity, religion, ability, class, or size will NOT be tolerated. **Turn off all unnecessary electronic devices to prevent sudden interruption during class time: this means the use of cellular devices is *strictly prohibited* during class time.** Inappropriate behavior in the classroom shall result, minimally, in a request to leave class. See more detailed information at the link directly above and the link to the Code of Student Conduct directly below.

CODE OF STUDENT CONDUCT (Student Handbook):

<http://www.depts.ttu.edu/dos/docs/1819Handbook.pdf>

Academic Integrity (TTU OP 34.12): It is the aim of the faculty of Texas Tech University to foster a spirit of complete honesty and high standard of integrity. The attempt of students to present as their own any work not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offenders liable to serious consequences, possibly suspension.

“Scholastic dishonesty” includes, but it not limited to, cheating, plagiarism, collusion, falsifying academic records, misrepresenting facts, and any act designed to give unfair academic advantage to the student (such as, but not limited to, submission of essentially the same written assignment for two courses without the prior permission of the instructor) or the attempt to commit such an act.

The instructor in a course is responsible for initiating action for dishonesty or plagiarism that occurs in his or her class. In cases of convincing evidence of or admitted academic dishonesty

or plagiarism, an instructor should take appropriate action. Before taking such action, however, the instructor should attempt to discuss the matter with the student. If cheating is suspected on a final exam, the instructor should not submit a grade until a reasonable attempt can be made to contact the student, preferably within one month after the end of the semester. See the section on “Academic Conduct” in the Code of Student Conduct for details of this policy.

Potential for Course Modality Change

If Texas Tech University campus operations are required to change because of health concerns related to the COVID-19 pandemic, it is possible that this course will move to a fully online delivery format. Should that be necessary, students will likely need a webcam and microphone and will be advised of additional technical and/or equipment requirements, including remote proctoring software.

Illness-Based Absence Policy

If at any time during this semester you feel ill, in the interest of your own health and safety as well as the health and safety of your instructors and classmates, you are encouraged not to attend face-to-face class meetings or events. Please review the steps outlined below that you should follow to ensure your absence for illness will be excused. These steps also apply to not participating in synchronous online class meetings if you feel too ill to do so and missing specified assignment due dates in asynchronous online classes because of illness.

1. If you are ill and think the symptoms might be COVID-19-related:
 - a. Call Student Health Services at 806.743.2848 or your health care provider.
 - b. Self-report as soon as possible using the ttucovid19.ttu.edu management system. This website has specific directions about how to upload documentation from a medical provider and what will happen if your illness renders you unable to participate in classes for more than one week.
 - c. If your illness is determined to be COVID-19-related, remaining documentation and communication will be handled through the Office of the Dean of Students, including notification to your instructors.
 - d. If your illness is determined not to be COVID-19-related, please follow steps 2.a-d below.

2. If you are ill and can attribute your symptoms to something other than COVID-19:
 - a. If your illness renders you unable to attend face-to-face classes, participate in synchronous online classes, or miss specified assignment due dates in asynchronous online classes, you are encouraged to visit with either Student Health Services at 806.743.2848 or your health care provider. Note that Student Health Services and your own and other health care providers may arrange virtual visits.
 - b. During the health provider visit, request a “return to school” note;
 - c. E-mail the instructor a picture of that note;
 - d. Return to class by the next class period after the date indicated on your note.

Following the steps outlined above helps to keep your instructors informed about your absences and ensures your absence or missing an assignment due date because of illness will be marked

excused. You will still be responsible to complete within a week of returning to class any assignments, quizzes, or exams you miss because of illness.

Course Schedule – Dates are approximate

Week of	Topic
Aug. 22	Syllabus/Introduction to the class, development of Homeland Security, duties/responsibilities of HS personnel
Aug.29	Psychology of terrorism, counter terrorism concept in DHS
Sept. 6	Labor Day – No Class
Sept. 13	Description of the roles of the major organizations responsible for homeland security and intelligence related to homeland security
Sept. 20	Understand the historical perspective concerning homeland security threats to the US
Sept.27	Major concept, goals, methods, weapons, tactics, and techniques used by terrorists
Oct. 4	Analytical Concept - Detection and quantification principles used to counter weapons of mass destruction
Oct. 11	Analytical Concept – Analytical and Bioanalytical methods, Field kits
Oct. 18	<ul style="list-style-type: none"> • Midterm Exam
Oct. 25	Chemical and biological principles of (WMD) - chemical weapons, essentials of toxicology, dose-effect principle
Nov. 1	Chemical and biological principles of (WMD) – biological weapons <ul style="list-style-type: none"> • Policy paper topics announced
Nov. 8	Chemical and biological principles of (WMD) – nuclear weapons (principles of nuclear technology and weapons)
Nov. 15	Chemical and physical description of explosives and firearms; essentials of ballistics <ul style="list-style-type: none"> • Policy paper topics deadline
Nov. 22	Student presentations of peer’s case study paper critique
Nov. 29	Lessons Learned & Explained – Explanation and consequences learned from significant homeland security incidents related to terrorism.
Dec. 6	<ul style="list-style-type: none"> • Final Exam

***If changes are needed to the syllabus at any time throughout the semester, the Instructor reserves the right to make change(s). However, the students will be notified of such change(s) immediately during class and via email. ***