BOR4351:  
Critical Infrastructure Protection 

Ms. Ronnie Mompellier  
949-246-1211 
Ronnie.mompellier@angelo.edu 
Office Hours:  
by appointment- I am on PST, you may text, or email me any reasonable time. However, I am not always available for phone calls. 

Course Description/Overview 

This is a senior level course addressing the topic of critical infrastructure protection. Critical Infrastructure protection has become a major component of national and homeland security policy. Recently, the potential of terrorist attacks on the national infrastructure essential to the continued economic, military, political, and financial well-being of a nation has been made clear through the terrorist attacks of 9-11, the attacks on mass transit in England, Spain, and Japan, bombings of financial institutions in Turkey, and the continual broadcast of terrorist calls for attacks on local, vulnerable targets. 

From the course catalog: "The evolution and principles of critical infrastructure, in both the private and public sectors, vital to their community, state, or the nation are identified. Risk assessments are performed and students address risk mitigation plans and appropriate countermeasures to a variety of threats from an all-hazards perspective. Includes instruction in homeland security policy, critical infrastructure policy, threat assessment, physical security, personnel security, operational security, contingency planning, case analyses of specific industries and systems, redundancy planning, emergency and disaster planning, security systems, and intelligence operations."

This course is taught over an 8-week period.

Course Bibliography and Required Readings: 

*Homeland Security and Critical Infrastructure Protection*  
Pamela Collins and Ryan Baggett  
2009  
Praeger Security International  
ISBN 978-0-313-35147-1  
eISBN 978-0-313-35148-8 

*Other readings will be provided to the student in electronic format*

Prerequisites
There are no prerequisites for this course.

**Technical skills required for this course**

As with all online courses, students must be able to operate a computer and have the necessary technical skills to navigate around a web page. Additional technical skills are not a prerequisite for this course, however your computer must meet certain minimum requirements to operate the software associated with this class.

**Time spent on this course**

Students can expect to spend a minimum of 6 hours per week to complete all the readings and assignments. The lessons themselves take as long as the student will require to read the materials and watch or listen to media presentations.

**Goals, Objectives, and Outcomes**

This course has several objectives:

**Objective One:** To expand, define, and identify critical infrastructure.

**Objective Two:** To develop student comprehension of the need for a critical infrastructure protection plan.

**Objective Three:** To assess student synthesis of knowledge, comprehension, and application of the principles of critical infrastructure protection from an all-hazards perspective.

Students have a right to know what instructors are going to expect that they learn from a course of instruction and how their learning will be measured. This course establishes several learning outcomes that are measured subjectively. When you finish this course you should be able to:

- Apply critical infrastructure evaluation procedures across a wide spectrum of infrastructure.
- Analyze the condition and vulnerability of critical infrastructure.
- Compose a critical infrastructure evaluation plan, execute that plan, and produce an analysis of a critical infrastructure component.
- Evaluate and critique the existing critical infrastructure protection measures in place in any given community.
- Critically think and critically write about Homeland Security topics.

**Note:** in each individual lesson you may see two different terms in the To-Do lists, "read" and "review or optional reading". In this course these have two different meanings.
“Read” implies that you will actually read the entire material.

“Review or Optional reading” implies that you will skim the materials for interesting or applicable information that will enhance your comprehension of the course materials, other readings, or course focus. Some of the materials identified for “review” are very long, and you are not expected to read all this, simply use it as an appropriate reference.

**Grading Policies**

**Discussion board participation:** Six (6) discussion topics at 10% each = 60% of overall grade. Participation in the Discussion Board will be graded using the Discussion Rubric found throughout the Border and Homeland Security program. I expect that you will use resources, real world examples to support your work, and use analytical thinking in your writing.

**Writing Assignment 1:** Due on Thursday in Week 4 (Sept. 20, 2018), this two (2) page paper counts for 15% of your overall grade.

I will only grade late papers if I have time. I have the option to not accept late papers.

**Final Paper:** Due on MONDAY at the beginning of Week 8 by midnight (Oct. 15, 2018). This paper counts for 25% of your overall grade.

Late Final papers will not be accepted.

**Grades**

Angelo State University employs a letter grade system. Grades in this course are determined on a percentage scale:

- A = 90 – 100 %
- B = 80 – 89 %
- C = 70 – 79 %
- D = 60 - 69 %
- F = 59 % and below.

**Discussion Guidelines**

There is a discussion due every week except for week four (4) nor week eight (8). Students are expected to critically think about the presented topic and apply what they’ve learned to that topic. Each student will make an initial, robust posting of approximately 250 words that addresses the topic. Students will also offer critical responses to the postings of two or more other students. The intent is to establish a discussion between students over the proposed topic. Discussion board posts will be graded using the discussion rubric.
Writing Assignments and Guidelines

This course utilizes two (2) writing assignments.

**Assignment 1:** Due by THURSDAY by midnight in Week 4. This paper will be graded using the Writing Assignment Rubric. The paper should be two (2) pages in length, with 1 inch margins, using Times New Roman 12 point font. Length is exclusive of the cover page and references.

**Final:** Due on MONDAY midnight at the beginning of Week 8 (Oct. 15, 2018), This paper will be graded using the Writing Assignment Rubric. The paper should be four (4) pages in length, with 1 inch margins, using Times New Roman 12 point font. Length is exclusive of the cover page and references.

Length is exclusive of the cover page and references.

**LATE PAPERS WILL NOT BE ACCEPTED.**

**Warning:** Any PLAGIARISM will not be tolerated and can result in the failure of a course and dismissal from the University.

Formal academic writing uses standardized styles and citation formats. The preferred format is the APA style. To access the APA writing guidelines go to this link: [http://owl.english.purdue.edu/owl/resource/560/01/](http://owl.english.purdue.edu/owl/resource/560/01/).

Should you wish to use CHICAGO style that will be acceptable. The Chicago Style guide can be found at [http://www.chicagomanualofstyle.org](http://www.chicagomanualofstyle.org).

Papers should have 1-inch margins all around. You are expected to use a standardized font - preferably Times New Roman, 12 point. Cite your references in EVERY instance and include a properly formatted reference list and cover page with every assignment. An abstract is not necessary in this class.

Every writing assignment should be submitted as a WORD or PDF document uploaded through blackboard. If you do not have Microsoft Office or Adobe Acrobat, then copy the text you have written directly into the assignment section of Blackboard during the appropriate week. **Do NOT** submit writing assignments in Word Perfect, Microsoft Works, or some e-mail format. They will not be accepted.

**Rubrics**

Discussion forums and writing assignments will be graded using a standardized rubric. It is recommended that you be familiar with these grading criteria and keep them in mind as you complete the writing assignments. There are two rubrics. Click the link to download the PDF document:
Other Policies

Participation and Communication

In this class everyone, brings something to the table. Your ideas and thoughts do count, not only to me, but the entire class. Feel free to ask questions either via e-mail or the discussion board. Check the discussion board regularly. Many student questions are applicable to the class as a whole, as are the responses. You may be surprised how many of your classmates have the same questions and concerns as you. I may simply post your particular question on the discussion board and allow your classmates to provide the answer through their own posts.

To some, this may be their first online class and naturally, it could seem somewhat intimidating. As a class, we are together to help each other with this learning process and share our collective knowledge on how best to communicate; how to resolve technical issues that may arise (if we have the expertise), and to assist each other to find answers to our questions.

We will learn and work as a team.

Courtesy and Respect

_Courtesy and Respect are essential ingredients to this course. We respect each other's opinions and respect their point of view at all times while in our class sessions. The use of profanity & harassment of any form is strictly prohibited (Zero Tolerance), as are those remarks concerning one's ethnicity, life style, race (ethnicity), religion, etc., violations of these rules will result in immediate dismissal from the course._

Incompletes

The University policy on grades of "Incomplete" is that the deficiency in performance must be addressed satisfactorily by the end of the next long (16 week) semester or the grade automatically becomes a "F". Grades of "Incomplete" will only be awarded to students who have demonstrated sufficient progress to earn the opportunity to complete the course outside of the normal course duration. The award of an "Incomplete" will only be made in rare circumstances, with the concurrence of the student and the professor on what specific tasks remain and when they are due for the grade to be changed to a higher grade. The determination of the need to award an "Incomplete" is entirely up to the professor's personal judgment.

Attendance
This is an online course and attendance is not taken. However, failure to participate in the discussion board, to communicate or respond to e-mails from the professor, is an indication something is wrong. We can no longer forcibly drop students from classes for non-attendance or non-participation. Therefore, we have made both a significant component of the course grade as an enticement to keep you engaged in the learning process. Failure to participate or communicate on the part of a student will result in an appropriate reduction of your grade and possibly in your failure of this course.

Add/Drop dates

Students may add this course up to the last Friday of the first week of class.

Students may drop this course up to the 6th day of the class or the last drop date as specified by the University Administration.
Course Organization

**Lesson 1:** The course is opened with a note of welcome, some basic information on the organization of the class and expectations of student participation. The lesson then proceeds to cover the various legal bases for protecting critical infrastructure as well as the National Infrastructure Protection Plan and the National Incident Management System.

**Lesson 2:** The process of conducting Critical Infrastructure and Key Resource vulnerability analysis is discussed with the intent of assisting students in selecting CI/KR components for further analysis and research.

**Lesson 3:** This lesson explores the various energy systems in the U.S. and the transportation sector as critical infrastructure.

**Lesson 4:** The importance of facilities and national icons as critical infrastructure is reviewed. This lesson then continues by looking into the various components of critical infrastructure that are environmentally important.

**Lesson 5:** Over 20% of U.S. GDP is generated by the critical infrastructure sectors of communications, information technology, and the banking/finance industry. In conjunction with these sectors the issue of public safety as critical infrastructure is discussed.

**Lesson 6:** Few events can rival the impact of a weapon of mass destruction on critical infrastructure, except for weather related natural disasters. Both concepts are discussed as they relate to critical infrastructure protection.

**Lesson 7:** In this lesson we discuss the potential impact geological hazards have on critical infrastructure. Of course, no course would be complete if we didn’t discuss the issue of accidents – a major contributor to loss of critical infrastructure annually, and perhaps the largest indicator of infrastructure vulnerability.

**Lesson 8:** This lesson completes the course and wraps up the subject of critical infrastructure protection.
University Policies

Academic Integrity

Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding and complying with the university Academic Honor Code and the ASU Student Handbook.

Accommodations for Disability

The Student Life Office is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the student's responsibility to initiate such a request by contacting the Student Life Office at (325) 942-2191 or (325) 942-2126 (TDD/FAX) or by e-mail at Student.Life@angelo.edu to begin the process. The Student Life Office will establish the particular documentation requirements necessary for the various types of disabilities.

Student absence for religious holidays

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 holiday shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence.