

Sul Ross State University

Instructor: Thea Glenn

Course CSST3322-Secure Programming Practices

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Office Hours: 8-10am TR

Class: *Online*

Required Materials:

Textbook: Theodor Richardson, (2013). *Secure Software Design*. Jones and Bartlett Learning. ISBN 13: 9781449626327

Links:

Introducing Core Database Concepts

<https://channel9.msdn.com/Series/dbfundamentals/01>

Computer Science SLO's

- Understand the fundamental concepts of computer science including algorithms and data structures.
- Understand modern computer systems, databases, and networking.
- Display an understanding and ability to implement current programming methodologies.
- Become proficient with system design based on object-oriented programming.

Course Objectives:

The students will be able to:

- Understanding of the characteristics of secure programming design.
- The ability to reduce risk of vulnerabilities when programming.
- Robust programming, defensive programming, and programming flaws.

- Understanding software vulnerabilities.
- The purpose of cryptography in programming.
- Introduction to Operating system security.
- Introduction to database environment and security management.
- Software Development Life Cycle (SDLC)
- Identify and prioritize system vulnerabilities.
- Policy and security.

Distance Education Statement:

Students enrolled in distance education courses have equal access to the university's academic support services, such as Smarthinking, library resources, such as online databases, and instructional technology support. For more information about accessing these resources, visit the SRSU website. Students should correspond using Sul Ross email accounts and submit online assignments through Blackboard, which requires secure login information to verify students' identities and to protect students' information. The procedures for filing a student complaint are included in the student handbook. Students enrolled in distance education courses at Sul Ross are expected to adhere to all policies pertaining to academic honesty and appropriate student conduct, as described in the student handbook. Students in web-based courses must maintain appropriate equipment and software, according to the needs and requirements of the course, as outlined on the SRSU website.

Attendance

This course is an online course. Attendance is tracked by when you log in and out of the class. I only use this when verifying individuals are still in class or if they need to withdraw due to lack of activity (submitting homework).

Need for Assistance

Sul Ross State University is committed to equal access in compliance with the Americans with Disabilities Act of 1973. It is the student's responsibility to initiate a request for accessibility services. Students seeking accessibility services must contact Mary Schwartze, M. Ed., L.P.C., in Counseling and Accessibility Services, Ferguson Hall, Room 112. The mailing address is P.O. Box C-122, Sul Ross State University, Alpine, Texas 79832. Telephone: 432-837-8691. E-mail: mschwartze@sulross.edu.

Course Policies

Quizzes and assignments must be submitted on time. I have set up rules in Blackboard so that assignments cannot be submitted after the due date.

Academic Dishonesty: Honesty in completing assignments is essential to the mission of the university and to the development of the personal integrity of the student. Cheating, plagiarism, or other kinds of academic dishonesty will not be tolerated and will result in appropriate

sanctions that may include failing an assignment, failing the class, or being suspended or expelled. Suspected cases in this course may be reported to Student Life.

Posting of Grades

As soon as assignments, exams, and quizzes are graded, the grades will be posted in Blackboard.

Grading

Letter grades will be determined using a standard percentage point evaluation as outlined below. Please note that this is a tentative schedule and can change. Any changes that happen will be updated in Blackboard. Assignment Due Dates are posted in Blackboard.

Calculating points based on the following weights will determine your final grade:

- A 90 - 100 points
- B 80 - 89 points
- C 70 – 79 points
- D 60 – 69 points
- F below 60 points

The table following is a tentative schedule of the planned assignments. The legend for assignments is below the table:

Weeks	Chapter Readings	Assignments	Max Points Earned
1	Chapter 1	In Blackboard	100
2	Chapter 2	In Blackboard	100
3	Chapter 3	In Blackboard	100
4	Chapter 4	In Blackboard	100
5	Chapter 5	In Blackboard	100
6	Chapter 6	In Blackboard	100
7	Chapter 7	In Blackboard	100
8	Chapter 8	In Blackboard	100
9	Chapter 9	In Blackboard	100
10	Chapter 10	In Blackboard	100
11	Chapter 11	In Blackboard	100

12	Chapter 12	In Blackboard	100
13	Chapter 13	In Blackboard	100
14	Chapter 14	In Blackboard	100
15	Chapter 15	In Blackboard	100
16	Chapter 16	In Blackboard	100

Assignments will consist of papers and discussion questions. A template for how the paper should be formatted is provided in BlackBoard.