

2025 Fall Semester CSA 3355 - Advanced Administration and Virtualization Security
Course Syllabus – Fall 2025

Sul Ross State University
Department of Computer, Mathematical, and Physical Sciences

COURSE DESCRIPTION

CSA 3355 - Advanced Administration and Virtualization Security

- This course provides students with an understanding of the roles of Windows Server functions, the services provided by the server system, from basic to advanced operations involved in system security administration by utilizing virtualization technologies.
- It includes secure configuration of a system server, password policies, updates, patches, backups, port configuration and security scans.

COURSE OBJECTIVES

When you finish this course, you will know how to:

- Define and describe the Windows Server functions
- Learn the security system administration
- Be familiar with virtualization technologies
- Learn how to securely configure system server, password policies, updates, patches, backups.

INSTRUCTOR INFO

[Said Varlioglu](#)

msv20iy@sulross.edu

saidvarlioglu@sulross.edu

Office Hours: Video Calls by appointment

COURSE CALENDAR:

Module	Begin Date	Topic	Assignments
1	Week 1	Introduction to System Administration	- Discussion Board 1 - Module 1 Assignment
2	Week 2	Fundamentals of Operating Systems	- Discussion Board 2 - Module 2 Assignment
3	Week 3	Basics of Networks	- Discussion Board 3 - Module 3 Assignment
4	Week 4	Introduction to Cybersecurity Fundamentals	- Discussion Board 4 - Module 4 Assignment
5	Week 5	Setting up Virtual Environment	- Discussion Board 5 - Module 5 Assignment
6	Week 6	Intro to Windows 2016 and Installation	- Discussion Board 6 - Module 6 Assignment
7	Week 7	Windows 2016 Server System Monitoring - Triaging	- Discussion Board 7 - Module 7 Assignment
-	-	SEMESTER BREAK	No Assignment
8	Week 8	Installing and configuring Windows 2016 Active Directory	- Discussion Board 8 - Module 8 Assignment
9	Week 9	Managing User Accounts and Active Directory objects	- Discussion Board 9 - Module 9 Assignment
10	Week 10	Group Policy Management	- Discussion Board 10 - Module 10 Assignment

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11	Week 11	Management of Shared Folders and Permissions	- Discussion Board 11 - Module 11 Assignment
12	Week 12	Windows 2016 Server Backup Settings	- Discussion Board 12 - Module 12 Assignment
13	Week 13	Windows 2016 Server Event Log Management	- Discussion Board 13 - Module 13 Assignment
14	Week 14	- Final Week – Final Presentation and Course Evaluation PowerPoint Presentations as the Final Assignment	- Course Evaluation - Final Presentation

PERSONAL COMPUTER REQUIREMENT

You are expected to have a personal computer during the course.

COURSE POLICIES

Instructor Communication

Email is the best way to reach me. We can also meet in a video call if you need. The zoom link is above. As an Adjunct Instructor, I do not have an office on campus.

Grading

Your grade in this course will consist of the following categories.

Grading Scale:

- 90 - 100 = A
- 80 – 89 = B
- 70 - 79 = C
- 60 – 69 = D
- <60 = F

Grade Book Item	Weights
Assignments	70%
Discussion Boards	20%
Final Presentation	10%
Total	100%

SRSU LIBRARY SERVICES

The Sul Ross Library offers FREE resources and services to the entire SRSU community. Access and borrow books, articles, and more by visiting the library's website, www.library.sulross.edu . Off-campus access requires your LoboID and password. Check out materials using your photo ID. Librarians are a tremendous resource for your coursework and can be reached in person, by email (srsulibrary@sulross.edu), or phone (432-837-8123).

Once you logged in to your Sul Ross Account on Blackboard you should be automatically connected to the library webpage as well. Thus, you can browse the online databases of the University and reach the articles on the reading list.

Syllabus is subject to updates and changes always look to the course announcements and reminders for updates. The faculty member reserves the right to amend this syllabus as needed.

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STUDENTS WITH SPECIAL NEEDS:

ADA (Americans with Disabilities Act) Sul Ross State University (SRSU) is committed to equal access in compliance with Americans with Disabilities Act of 1973. It is SRSU policy to provide reasonable accommodations to students with documented disabilities. It is the student's responsibility to initiate a request each semester for each class. Students seeking accessibility/accommodations services must contact Rebecca Greathouse Wren, LPC-S, SRSU's Accessibility Services Coordinator at 432-837-8203 (please leave a message and we'll get back to you as soon as we can during working hours), or email rebecca.wren@sulross.edu. Our office is located on the first floor of Ferguson Hall (Suite 112), and our mailing address is P.O. Box C-122, Sul Ross State University, Alpine, Texas, 79832.

STUDENT SUPPORT SERVICES AND BLACKBOARD HELP DESK

Sul Ross State University has established a variety of programs to help students meet the challenges of college life. Support to students includes advising, counseling, mentoring, tutoring, supplemental instruction, and writing assistance. For a complete list of academic support services, visit the Student Support Services <https://www.sulross.edu/section/311/student-support-services>. For more information, students are encouraged to contact SSS at (432) 837-9118 or visit Ferguson Hall Room 105. For Blackboard help visit <https://www.sulross.edu/bb> or call 432-837-8523 (M-F 09:00 am-06:00 pm). You can get The Distance Education Handbook at <https://tvpb.sulross.edu/start/index.html>