



**VC CAMPUS
SCHOOL OF BUSINESS**

SYLLABUS

Mission Statement: Wayland Baptist University exists to educate students in an academically challenging, learning-focused and distinctively Christian environment for professional success and service to God and humankind.

1. Course: **EDIT 5341** – Spring-CMP2019VC01, Computer Network & Data Management
2. Term: Spring2 2021
3. Instructor: Dr. Jerrod Pickering
4. Mobile Phone Number: 806-241-8007 and WBU Email Address: Jerrod.pickering@wayland.wbu.edu
5. Office Hours, Building, and Location: By Appointment Only
6. Class Meeting Time and Location: Online
7. Catalog Description: Computer Networking and preparation for Network Plu
8. Prerequisites: COSC 2311.
9. Required Textbook and Resources:

BOOK	AUTHOR
Network Pro (Access Code)	Testout

10. Optional Materials:
11. Course Outcome Competencies:
At the end of the course the student will be able to:
 - Understand the fundamental principles of electronic communications
 - Understand the various protocols used in data communications
 - Be able to distinguish the differences between various communication media
 - Know the relative advantages and disadvantages of communication media
 - Know the different communication and networking models
 - Be able to set up and maintain networking systems
12. Attendance Requirements: Log in and work weekly
13. Statement on Plagiarism and Academic Dishonesty: Wayland Baptist University observes a zero tolerance policy regarding academic dishonesty. Per university policy as described in the academic catalog, all cases of academic dishonesty will be reported and second offenses will result in suspension from the university.
14. Disability Statement: “In compliance with the Americans with Disabilities Act of 1990 (ADA), it is the policy of Wayland Baptist University that no otherwise qualified person with a disability be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational program or activity in the university. The Coordinator of Counseling Services serves as the coordinator of students with a disability and

should be contacted concerning accommodation requests at (806) 291- 3765. Documentation of a disability must accompany any request for accommodations.”

15. Course Requirements and Grading Criteria:

- Network Pro Modules- 50% These will be from the lab sim module
- Discussion Boards- 25% You will participate in 3 different discussion board throughout the course.
- Final- 25%

Students shall have protection through orderly procedures against prejudices or capricious academic evaluation. A student who believes that he or she has not been held to realistic academic standards, just evaluation procedures, or appropriate grading, may appeal the final grade given in the course by using the student grade appeal process described in the Academic Catalog. Appeals may not be made for advanced placement examinations or course bypass examinations. Appeals are limited to the final course grade, which may be upheld, raised, or lowered at any stage of the appeal process. Any recommendation to lower a course grade must be submitted through the Executive Vice President/Provost to the Faculty Assembly Grade Appeals Committee for review and approval. The Faculty Assembly Grade Appeals Committee may instruct that the course grade be upheld, raised, or lowered to a more proper evaluation.

16. Schedule: You will work through the coursework in TestOut on an individual pace. Students will complete all assignments in each assigned section in TestOut The instructor will be monitoring and asking questions if sufficient progress is not being made. The discussion boards will be conducted in modules on Blackboard. The final will be assigned in TestOut. The following modules will need to be completed in TestOut. There are seven modules. It would be in the student’s best interest to complete one module per week.

17. Additional information as desired by the faculty member.

Module	Topic
1. Networking Basics	1.1- Overview 1.2- Topologies 1.3- OSI Model 1.4- Network Protocols
2. Network Devices	1.1- Network Adapters 1.2- Network Devices 1.3- Internetwork Devices
3. Firewalls <u>Discussion Board Topic</u> - Proxy server management in schools	1.1- Firewalls 1.2- Security Appliances 1.3- Firewall Design and Implementation
4. Network Policies and Procedures <u>Discussion Board Topic</u> - Technology Risk Management in schools	1.1- Network Design, Documentation and Policies 1.2- Risk Management 1.3- Security Policies
5. Network Security Part 1	1.1- Physical Security 1.2- Social Engineering 1.3- Network Vulnerabilities and Threats 1
6. Network Security Part 2 <u>Discussion Board Topic</u> - Managing technology in a virtual environment	1.4- Network Vulnerabilities and Threats 2 1.5- Remote Access Security 1.6- Troubleshooting Network Security Issues
7. Network Management	1.3- Remote Management 1.4 Mobile Device Management 1.6- Monitoring
8. Final Exam- Test Out	All applicable sections above