CYBER SECURITY

MRS. OYLER

Course Rationale:
This course helps student develop the skills needed to succeed in IT related degree programs and prepare for the CCNA Security certification. It provides a theoretically rich, hands-on introduction to network security. The goals of this course are to provide an in-depth understanding of network security, and to provide an experience-oriented course that employs industry-relevant instructional approaches to prepare students for associate level jobs in the IT/security industry. Pre-requisite: CCNA Semesters 1 – 4.

Course Objectives:
Upon successful completion of this course, the student's acquired competencies include:

- Identify modern network security threats.
- Understand securing network devices.
- Implement AAA on Cisco routers using local router database and server-based ACS or ISE.
- Implement firewall technologies to secure a network perimeter.
- Implement IPS to mitigate attacks on networks.
- Secure endpoints and mitigate common Layer 2 attacks.
- Secure communications to ensure integrity, authenticity and confidentiality.
- Implement secure VPNs.
- Implement an ASA firewall configuration using the CLI.
- Implement a remote access and site-to-site VPN
- Test network security and have a solid foundation of network security policy.

Attendance:
See the STA Student Handbook. In summary, students are expected to be present and punctual for all scheduled classes and labs. Please notify your instructor of any absence or attendance concern prior to the absence, if possible.

Curriculum Access:
Students will utilize course materials through our curriculum providers, TestOut (**www.testout.**com) Security Pro and Cisco Networking Academy (**www.netacad.com**) CCNA Security: Each student will utilize his or her personal username and password combination to the curriculum providers' websites. Students should remember not to share their curricular access or they will be in violation of the respectable user agreement and may lose access to the course materials.

Code of Conduct:
Students are expected to conduct themselves in a manner consistent with the educational purpose of this institution. Conduct deemed unacceptable toward maintaining a proper educational atmosphere will subject the student to disciplinary action in accordance with STA and LSR-7 policies.

Dual Credit Opportunity:
Qualified students can enroll and earn dual-credit through MCC-Business&Technology: **CSIS272:** Network Security. Must have CSIS 110 as a pre requisite course to qualify.

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Grading Scale:

95	- 100	A	73	- 76	C
90	- 94	A-	70	- 72	C-
87	- 89	B+	67	- 69	D+
83	- 86	B	63	- 66	D
80	- 82	B-	60	- 62	D+
77	- 79	C+	Below 60		F

Grading Rationale:

In this course, the semester grade will consist of the student's evaluated performance. The student's semester grade is calculated by combining the 18-week grade and the required Lee's Summit R-7 semester final exam as follows:

SEMESTER GRADE COMPONENTS	SEMESTER %
• Daily Work (see explanation below)	40%
• Exams (end of chapter or unit)	30%
• CCNA Security Skills Exam	20%
Lee's Summit R-7 Semester Final	**10%**
TOTAL SEMESTER GRADE PERCENTAGE	**100%**

Daily Work:

Credit for daily work will consist of a combination of all in-class, out-of-class, and homework assignments not indicated above. These assignments include, but are not limited to the following: quizzes, simulations, packet tracer exercises, and writing assignments.

Late Assignments:

Assignments that are late due to an Excused Absence must be submitted in accordance with the LSR-7 policy. Any assignment submitted one school day late will be reduced by 25%, two days 50%. Any assignments received 3 or more days late will be awarded no credit.