CYBERSECURITY AND INFORMATION TECHNOLOGY NETWORKING (CISCO)			
9th Grade	**10th Grade**	**11th Grade**	**12th Grade**
❑ English 9 or higher ❑ Algebra I or higher ❑ Biology ❑ Health (.5 credit) ❑ Tools (.5 credit) ❑ Physical Education I ❑ Electives (2)* ❑ ***Information Tech Cybersecurity I***	❑ English 10 or higher ❑ Geometry or higher ❑ Chemistry ❑ World History or higher ❑ Physical Education II ❑ Electives (2)* ❑ ***Information Tech Cybersecurity II***	❑ English 11 or higher ❑ Algebra II or higher ❑ Physics, or higher ❑ US History or higher ❑ Elective (2)* ❑ ***Internetworking I (1st Semester, 2 Periods)*** ❑ ***Internetworking II (2nd Semester, 2 Periods)***	❑ English 12 or higher ❑ Algebra II or higher ❑ Physics or AP Biology ❑ US Government or higher ❑ Elective (2)* ❑ ***Internetworking III (1st Semester, 2 Periods)*** ❑ ***Internetworking IV (2nd Semester, 2 Periods)***
*Suggested Electives: Business and Marketing, Business Software Apps, Manufacturing, Robotics, and Spanish			
Industry Certifications	**Student Organizations**	**Related Careers**	**Post-Secondary Options**
● CISCO Certified Network Administrator ● CISCO Certified Entry Network Technician ● CISCO PC Hardware & Software A+ ***Students will be prepared to sit for these exams following successful completion of the program.**	SkillsUSA	● Network Administrator ● Network Technician ● Information Systems Administrator ● Technical Support Specialist ● Network Architect ● Security Analyst	● CSN ● Great Basin College ● Nevada State College ● Truckee Meadows Community College ● UNLV ● UNR ● Western Nevada College

CTE College Credit is free and is awarded to students who:

1. Complete the CTE course sequence with a grade-point average of 3.0 or higher;
2. Pass the state end-of-program technical assessment for the program;
3. Pass the Workplace Readiness Assessment for employability skills: and
4. Apply to the school granting credit and request the credit be posted to a transcript. School counselors are available to assist students with this process.

Students who qualify for the college credit do not need to attend the credit granting school to receive the credit. Please see the appendix or visit http://www.doe.nv.gov/CTE/ for further information.

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Cybersecurity I	This one-year course provides students with introductory knowledge and skills in developing and implementing cybersecurity. Areas of emphasis include: cyber ethics, online safety, and securing networks. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society. The appropriate use of technology is an integral part of this course. This course fulfills one of the elective credits required for high school graduation. **See the Appendix for the Instructional Fee List.**	**Grades: 9** **Prerequisite: None** **Credits: 1**
Cybersecurity II **(Not offered 19-20 School Year)**	. **See the Appendix for the Instructional Fee List.**	**Grades: 10** **Prerequisite: Successful completion of IT Cybersecurity I** **Credits: 1**
IT NETWORKING I	This one-semester two-period course for junior and senior-level students provides classroom and laboratory instruction to help students learn the general theory needed to design, build, and maintain simple Ethernet networks. Concepts learned will provide the students with the opportunity to further their education in Information Technology (IT) and prepare for entry-level IT careers. Upon completion of this sequence of courses, students will qualify to sit for a national industry-standard certification exam. Instructional practices will incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to our society. The appropriate use of technology is an integral part of this course. This course will fulfill one elective credit required for high school graduation. **See the Appendix for the Instructional Fee List.**	**Grades: 11** **Prerequisite: Successful completion of IT Cybersecurity I and II or Essentials I and II** **Credits: 1**
IT NETWORKING II	This one-semester, two-period course for junior- and senior-level students provides classroom and laboratory instruction to help students learn the general theory of distance vector routing protocols and skills required for advanced router configuration, including interfaces, Routing Information Protocol (RIP) and Enhanced Interior Gateway Routing Protocol (EIGRP). Concepts learned will provide the students with the opportunity to further their education in Information Technology (IT) and prepare for entry-level IT careers. Upon completion of this sequence of courses, students will qualify to sit for a national industry-standard certification exam. Instructional practices will incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to our society. The appropriate use of technology is an integral part of this course. This course will fulfill one elective credit required for high school graduation. **See the Appendix for the Instructional Fee List.**	**Grades: 11** **Prerequisite: Successful completion of Internetworking I** **Credits: 1**

IT NETWORKING III HONORS	This one-semester, two-period course for senior level students provides classroom and laboratory instruction to help students learn the general theory of switching and intermediate routing, including virtual local-area networks (VLAN), interVLAN routing, wireless local area networks (LAN), and network troubleshooting. Concepts learned will provide the students with the opportunity to further their education in Information Technology (IT) and prepare for entry-level IT careers. Upon completion of this sequence of courses, students will qualify to sit for a national industry-standard certification exam. Instructional practices will incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to our society. The appropriate use of technology is an integral part of this course. This course will fulfill one elective credit required for high school graduation. **See the Appendix for the Instructional Fee List.**	**Grades: 12 Prerequisite: Successful completion of Internetworking I, II Credits: 1**
IT NETWORKING IV HONORS	This one-semester, two-period course for senior level students provides classroom and laboratory instruction to help students learn the general theory needed to understand Wide-Area Network (WAN) technologies. Classroom concepts learned will provide the students with the opportunity to further their education in Information Technology (IT) and prepare for entry-level IT careers. Upon completion of this course, students will qualify to sit for a national industry-standard certification exam. Instructional practices will incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to our society. The appropriate use of technology is an integral part of this course. This course will fulfill one elective credit required high school graduation. **See the Appendix for the Instructional Fee List.**	**Grades: 12 Prerequisite: Successful completion of Internetworking I, II, III H Credits: 1**