

Networking Administration Associate of Applied Science Option

Information Technology

Ranchview High School
Business & Industry or STEM Endorsement



This four year plan can be used as an example to help plan your high school career.

Subject	9th Grade	10th Grade	11th Grade	12th Grade
Language Arts	English	English	ENGL 1301 - English Comp I ENGL 1302 - English Comp II (Dual Credit Courses) (1 Credit)	English
Math	Math	Math	Math 1332 - Contemporary Mathematics. (Dual Credit Semester Course) Econ 2301 - Macro Economics (Dual Credit Semester Course)	Math
Science	Science	Science	Science	Science
Social Studies	Social Studies	Social Studies	Social Studies	Social Studies
CTE Courses	Principles of Information Technology (1 Credit)	ITSC 1405 - Introduction to PC Operating Systems (Dual Credit Semester Course) AND SPCH 1315 - Fundamentals of Public Speaking (Dual Credit Semester Courses)	ITCC 1414 - CCNA 1: Introduction to Networks AND ITCC 1444 - CCNA 2: Switching, Routing, and Wireless Essentials (Dual Credit Semester Courses)	ITCC 1191 - Special Topics in Systems, Networking and LAN/WAN Management/Manager AND ITSC 1416 - Linux Installation and Configuration OR ITSC 1402 - Computer Programming (All Dual Credit Semester Courses)
Additional Elective	ITSC 1425 - Personal Computer Hardware (Dual Credit Double blocked Semester Course)		ITNW 1408 - Implementing & Supporting Client OS (Dual Credit Double Blocked Semester Course)	ITNW 1492 - Special Topics in Computer Systems AND ITSY 1442 - Information Technology Security (All Dual Credit Semester Courses)
Additional Elective				ITSY 1400 - Fund of Information Security AND ITSY 2400 - Operating Systems Security (Dual Credit Semester Courses)
Additional Elective	Arts 1301 Art Appreciation (Dual Credit Semester Course)			ITCC 2420 - CNA 3: Enterprise Networking, Security, and Automation (Dual Credit Semester Course)

Network Administrator Associate of Applied Science Ranchview High School



Students in this strand will be able to earn an Associates of Applied Science degree.

ITSC 1425 - Personal Computer Hardware

Current personal computer hardware including assembly, upgrading, setup, configuration and troubleshooting.

ITSC 1405 - Introduction to PC Operating Systems (Dual Credit)

Introduction to personal computer operating systems including installation, configuration, file management, memory and storage management, control of peripheral devices, and use of utilities.

ITCC 1414 - CCNA 1: Introduction to Networks

Describes the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts; provides an in-depth understanding of how routers and switches operate and are implemented in the LAN environment.

ITNW 1408 - Implementing & Supporting Client OS

Skills development in the management of client as desktop operating systems.

ITCC 1444 - CCNA 2: Switching, Routing and Wireless Essentials

Describes the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts; provides an in-depth understanding of how routers and switches operate and are implemented in the LAN environment.

ITCC 1191 - Special Topics in System, Networking and LAN/WAN Management/Manager

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

ITNW 1492 - Special Topics in Computer Systems

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

ITSY 1400 - Fundamentals of Information Security

An introduction to information security including vocabulary and terminology, ethics, the legal environment, and risk management. Identification of exposures and vulnerabilities and appropriate countermeasures are addressed. The importance of appropriate planning, policies, and controls is also discussed.

ITCC 2420 - CCNA 3: Enterprise Networking, Security and Automation

Describes the architecture, components, operations, and security to scale for large, complex networks, including wide area network (WAN) technologies. Emphasizes network security concepts and introduces network virtualization and automation.

ITSC 1416 - Linux Installation and Configuration

Introduction to the Linux operating system. Includes Linux installation, basic administration, utilities and commands, upgrading, networking, security, and application installation. Emphasizes hands-on setup, administration, and management of Linux.

ITSY 1442 - Information Technology Security

Instruction in security for network computer hardware, software, virtualization, and data, including physical security; backup procedures; relevant tools; encryption; and protection from viruses. Topics may adapt to changes in industry practices.

ITSY 2400 - Operating Systems Security

Safeguard computer operating systems by demonstrating server support skills and designing and implementing a security system. Identify security threats and monitor network security implementations. Use best practices to configure operating systems to industry security standards.