Cisco Networking

Class Meetings
Monday through Friday – 12:15pm to 2:35pm

Location
New Horizons Career & Technical Education Center
13400 Woodside Lane, Building A, Room 135
Newport News, Virginia 23608

Instructor
Cerone Hardy
E-mail: cerone.hardy@nhrec.org
Office Hours: Monday – Friday from 10:00am to 11:00am
Phone: 757-704-4603

Course Description
Begin preparing for a networking career with this introduction to how networks operate. This course introduces architectures, models, protocols, and networking elements needed to support the operations and priorities of Fortune 500 companies to small innovative retailers. Developing a working knowledge of IP addressing schemes and foundational network security, you will be able to perform basic configurations for routers and switches. You will even get the chance to build simple local area networks. Instruction will include a combination of lectures, online activities, and hands-on labs. This is a 4 credit hour, Dual Enrollment Course. For information on how to verify your enrollment and other helpful information regarding dual enrollment, please visit vpcc.edu/programs/high-school/dual-enrollment. To request your transcript to be sent to another institution for possible transfer, please visit vpcc.edu/admissions/transcripts.html.

Textbooks
Online access to the Cisco Networking Academy textbook and curriculum is provided. Internet access is required to view the text.

Course Objectives
- Perform conversions between binary, decimal, and hexadecimal number systems
- Design, calculate, and apply addresses and subnet masks to fulfill given requirements in IPv4 and IPv6 networks
- Understand and describe the devices and services used to support communications in data networks and the Internet
- Understand and describe the role of protocol layers in data networks
- Build a simple Ethernet network using Cisco routers and switches
- Utilize common network utilities to verify small network operations and analyze data traffic

Communication
You will be given a New Horizons email account on your first day of class. This will be your communication medium for the course. The use of personal email accounts is not permitted in the classroom nor for communication with your instructor.

Attendance Requirements and Policy
All students are expected to attend classes daily and to remain for the entire class period. The following rules shall govern student attendance:

- Three (3) unexcused tardies shall constitute as one (1) unexcused absence.
- Five (5) or more unexcused absences (failure to attend class) in any nine-week grading period will result in a grade of 'F'.
- It is the sole responsibility of the student to request and to complete all missed assignments resulting from a tardy or absence.

Grading Policy and Procedures
Grades will be issued using a standard 10-point scale.

A = 90 and above   B = 80 to 89   C = 70 to 79   D = 60 to 69   F = 59 and below

The coursework will be weighted as follows: 33% – Related Instruction (tests, quizzes, etc.)
33% – Competencies (Packet Tracers, lab assignments, and lab assessments)
34% – Employability (demonstration of workplace readiness skills)

The final exam will be weighted 20% of the semester grade.