Honors Network Engineering Technology 2
CCNA 2: Switching, Routing, and Wireless Essentials
Instructor: Jennifer Walker

Welcome to Honors NET 2. This class will build upon theories and configuration skills learned in NET1. Upon successful completion, you will earn a Networking Academy badge. While learning these skills, you will also prepare to take the Cisco CCT and CCNA exams as well as the Microsoft MTA Networking Fundamentals exam. We will use the Cisco Networking Academy's *CCNA: Switching, Routing, and Wireless Essentials* curriculum to guide our course.

Contact Information:
> Instructor: Jennifer Walker
> Email: jlwalker@chccs.k12.nc.us
> Office: 919-929-2106 ext 41124
> Mobile: (919) 590-5653
> Website: https://www.LearnITWalker.com
> Social channels: @learnitwalker and LinkedIn
> Cisco Networking Academy (course material): https://www.netacad.com
> Google Meet if needed (login protected)
> Canvas LMS via NCEdCloud for assignments and grading comments
>> Canvas Parent Guide for access to assignments and grading comments

Course Topics:
- Module 0: Course Introduction and IP Addressing Review
- Module 1: Basic Device Configuration
- Module 2: Switching Concepts
- Module 3: VLANs
- Module 4: Inter-VLAN Routing
- Module 5: STP Concepts
- Module 6: Etherchannel
- Module 7: DHCPv4
- Module 8: SLAAC and DHCPv6
- Module 9: FHRP Concepts
- Module 10: LAN Security Concepts
- Module 11: Switch Security Configuration
- Module 12: WLAN Concepts
- Module 13: WLAN Configuration
- Module 14: Routing Concepts
- Module 15: IP Static Routing
- Module 16: Troubleshoot Static and Default Routes
- CCT Certificate Practice

Non-Discrimination Statement

Grading:
Your 9-weeks grade will be figured accordingly:
Tests/Quizzes: 50%
Classwork/Homework: 40%
Career Readiness (attendance, meeting deadlines, conduct, and communication skills): 10%
Final Exam:
This course uses the Cisco CCT exam or the Microsoft MTA Networking Fundamentals exam as the Proof of Learning and final exam. This Proof of Learning will count as 20% of the final grade for the course.
Other Grading Information:
This course is only offered at honor level and will result in honors weight for GPA purposes.

Need help? Contact me - use any options below:

	Tool	When	I will respond….
	Chat (use your school account) jlwalker@chccs.k12.nc.us	anytime	within 24 hours
	Email **jlwalker@chccs.k12.nc.us**	anytime	within 24 hours
	Text or call (919) 590-5653	anytime	within 24 hours
	Video conference via Google Meet	Email a request to meet virtually before or after school	within 24 hours
	Face to face meeting Tutoring, questions, etc.	Email a request to meet before or after school	within 24 hours

Supplies needed for this class:
Pen, paper, method for storing papers until they are digitized
Wired earbuds are recommended, but not required
Most of your work will be completed online. You can use word processing or paper for additional note space if needed. Cloud storage is available through your school account, so you can access your files from any location. A writing utensil will also be needed.
You will have videos assigned to watch on the classroom computers during class. Wired earbuds will allow you to listen to the videos. Alternatively, closed captions can be used, and/or the video transcript can be reviewed. Bluetooth connection is not available on the classroom computers.

Make-Up Policy:
If you are absent, please view the day's assignment in NetAcad. It is your responsibility to get the make-up assignment. You are expected to meet deadlines posted unless I have granted an extension.

Late Work:

Non-Discrimination Statement

You are expected to complete work on time. Any work submitted after the time listed in the Cisco assignment or by the teacher will have a **minimum** of 15 points deducted from the overall grade. Use your time wisely in class. **No points will be given to work submitted after the unit/chapter test has been given for that assignment.** Any work that we go over in class will NOT receive points after answers have been given (reading guides are the most common). Want to see what work is missing? See the Missing Work section below.

Missing Work:
Want to see what work you are missing? NetAcad has a feature that makes this super easy! Login to NetAcad and go to the assignment page. Give it a minute for it to populate and reorganize. It will load with all missing work at the top of the assignment page.

Class Rules:
- Respect others as well as yourself.
- Respect the computer equipment around you.
- Abide by Technology Acceptable Use Policy posted in the lab.
- Use smartphones and earbuds appropriately.
- No food or drinks in the lab.
- Abide by school rules.

District Computer Use:
You are expected to follow all CHCCS Chromebook Guidelines while using a district owned Chromebook, hotspot, and accessories. You are expected to abide by CHCCS, CHHS, and the Technology Acceptable Use Policy while in the Cisco Lab. Failure to follow these rules will result in restriction from Cisco Lab computers and/or CHCCS network use for a specified time.

Opportunities for college credit:
College-Career Promise (CCP) - dual credit
Students that complete NET1 and NET2 and wish to continue studies can take CCP courses. These courses will award both high school and college credit. Depending on the course, you might also qualify for college credit for your completed NET1 and NET2 classes.

NC Community College:
This course is included in the NC High School to Community College Articulation Agreement. A student can earn college credit at any NC Community College for this course. To receive articulated credit, students must enroll at the community college within two years of their high school graduation date and meet the following criteria:
- Final grade of **B** or higher in the course and
- A score of **93** or higher on the standardized CTE post assessment

Please visit NC High School to Community College Articulation Agreement for more information.

Four-year College and Universities:
Some colleges and universities will offer college credit for completing a Cisco Academy course. There is no written agreement between high schools and four-year colleges and universities; each college/university determines if college credit is awarded for this course. Please contact individual

Non-Discrimination Statement

colleges and universities to determine if you can qualify for college credit through this course; expect that you will need to make a final grade of 90 or higher on the course and exam. See Ms. Walker if you need assistance.

Certification Opportunities:
This course is the second course specifically designed to prepare you for the [Cisco CCT](#) and [CCNA](#) exams. You will also have the opportunity to take the [Microsoft MTA Networking Fundamentals](#) exam. There are other exams you can take with the knowledge gained from this course with just a little more individual effort. [Microsoft Networking Fundamentals](#), [Cisco CCT](#), and [CCNA](#) certificates are industry recognized certifications. These certificates will allow you to gain higher paying jobs now and in the future, and will also look great on college applications, scholarship applications, and resumes. For more information on these exams, please visit [Cisco's cert website](#) or [Microsoft's MTA cert website](#) .

Class Wish List:
- Items listed on my [Amazon Teacher List](#)
- Computers: working/non-working (no monitors please)
- Networking Equipment: working/non-working
- Mobile Devices: working/non-working
- Flash Drives
- Classroom Prizes (small items are fine) - The [Cisco Store](#) has stickers, pins, etc. (Accessories/Fun & Toys page). Non-Cisco techie goodies are welcome as well! I love to give prizes during class - please help me keep the prize bin stocked.

[Non-Discrimination Statement](#)