

Cybersecurity Program Syllabus 2020-2021 School Year

Instructor: Joy Platter

Phone: 360-570-4440

Room: B8

Email: joy.platter@tumwater.k12.wa.us

Web Page: tumwater.k12.wa.us/Page/8543

AM Session: 7:50am – 10:20am

PM Session: 11:10am – 1:40pm

Program Overview:

Data breaches, DDOS attacks, and computer viruses dominate headlines on almost a daily basis. These attacks affect big business, governments and individuals alike. Cyber Security is a multi-billion dollar industry and is expected to continue to grow into the foreseeable future. With a forecast global shortage of 3.5 million cyber security professionals by 2021, now is the time to begin training in this exciting and lucrative career field.

Our Cyber Security program will cover a variety of topics, skills and competencies which we will use to compete in the Air Force Association's CyberPatriot competition and to prepare to sit for CompTIA's IT Fundamentals certification as well as Microsoft's MTA Security Fundamentals and Networking Fundamentals certifications.

Program Objectives and Unit

- Leadership
- Computer Ethics and Safety
- IT Hardware
- Cyber Threats – Detection & Defense
- Cybersecurity Principles
- Virtual Machines
- Basic Security Tools
- User Account Management
- Windows File Protection
- Windows Auditing and Monitoring
- Linux Terminology and Concepts
- Basic GUI Security
- Command Line Security
- Intermediate Ubuntu Security
- Security Policies, Procedures, & Awareness
- Cryptography
- Physical Security
- IP Addressing & Subnetting
- Networking
- Network Security
- Physical Security

Grading Policies:

Students will have three different grades posted on their transcripts, one for each of these key areas: skills, knowledge, and employability. Please be aware that **each of these areas constitutes one letter grade on your transcript**. For example, doing exceptionally well on exams but refusing to complete labs may result in an A for knowledge and an F for skills.

Employability: Employability must be demonstrated each day to earn points toward the student's employability grade. Examples include: courtesy to peers and teachers, appropriate use of time and materials, keeping up with the curriculum, appropriate personal hygiene and clothing, and attendance. As part of the employability portion of our course, students are expected to come to class prepared and ready to learn. Documentation is a critical part of

any cybersecurity career therefore students are expected to bring a notebook and some type of writing instrument (pen or pencil) to class each day to take notes, complete assignments, and document their progress.

For full employability points for the day, you should adhere to the stated policy above **AND** complete the following each day:

- Beginning of Day Check-In form (found in Google Classroom)
- End of Day Check-In form (also found in Google Classroom)

Skills: Skills will be assessed using in-class and online labs and PacketTracers, as well as written and oral presentations.

Knowledge: Knowledge will be determined through a variety of online, in-class, and hands on assessments. Content grades for written and oral presentations will also be factored into the knowledge grading area.

Grade Scale:

Percent	Letter Grade	Percent	Letter Grade	Percent	Letter Grade
93-100	A	80-82.99	B-	67-69.99	D+
90-92.99	A-	77-79.99	C+	60-66.99	D
87-89.99	B+	73-76.99	C	0-59.99	F
83-86.99	B	70-72.99	C-		

Attendance Policy:

During distance learning, you will be counted present if you do at least one of the following tasks each day:

- Beginning or End of Day Check-In form
- Attendance at one or more Zoom meetings
- Completing assignments for the day
- Contacting instructor via email or phone

Redo Policy:

Exams may be retaken once without penalty, but not on the same day. One day between testing is required to allow students time to review material and clear up misconceptions that led to the poor initial score.

Homework Policy:

The majority of our class time will be spent teaching each other, completing hands-on and virtual labs, and carrying out in-class learning activities. **Students are expected to read the chapter material ahead of time and be prepared to discuss the concepts in class.** I will make every attempt to ensure that enough time is provided in class to complete lab and research assignments.. Late submissions will have a reduction of the overall score.

Food & Drink:

Food and drink will be permitted only in designated areas of the computer lab. Liquids in a sealable container may be allowed at personal workstations. Any open containers of liquids near the computers will be disposed of immediately. Continued violation of this policy will result in progressive disciplinary actions.

Leadership:

Leadership is a vital skill in today’s global economy, regardless of the industry. Students will learn leadership skills as they interact in group projects and competitions. They will also each have the opportunity to represent the Computer Hardware and Networking program, as a student ambassador, to classroom visitors and student tours.

Additional Policies and Course Requirements

NMSC Expectations & Policies – Student Handbook:

Students are expected to review and follow the school rules, procedures, and processes outlined in the NMSC Student Employability Handbook. New Market Skills Center follows Tumwater School District board policies. Rules will not be reprinted in the syllabi

Cheating/Plagiarism:

Students are expected to do their own work. Cheating and Plagiarism (presenting another writer's work as one's own) will not be tolerated.

Electronic Equipment:

*Cell phones are not permitted to be used during class. The use of cell phones has been proven to be a distraction to learning, community, attention, retention, and positive social interactions. You will not be able to use your cell phone without explicit permission. Cell phones should be placed in the provided phone holder at the beginning of the day. If you refuse, you will not earn professionalism points for the day, be marked late/absent, and will also be referred to the Director of Student Services for further disciplinary action. In order to be marked present and earn the minimum employability points you will be required to put your phone in a designated place for the class time until the last 15 minutes.

*other personal electronic devices, including but not limited to, iPods, PSP's, mp3 players and other media can also be a disruption to the educational process and are not allowed during class time unless permitted by the instructor.

Zoom Policies:

Please attend at least one Zoom meeting each day, one check-in meeting and one recap meeting if possible. Zoom meetings will be held four times daily as follows:

- 8:00-8:30 – Check-in
- 10:00-10:30 - Recap
- 12:00-12:30 - Check-in
- 1:30-2:00 - Recap

Students are expected to be professional and respectful when attending class on Zoom. The following are class policies for our meetings with Zoom. All students are expected to adhere to the policies.

- **Sign in with your full first name and last name as listed on the class roster.** Do not use a nickname or other pseudonym when you log in.
- **Stay focused.** Please stay engaged in class activities. Close any apps on your device that are not relevant and turn off notifications.
- **Video should be kept on.**
- **Keep it clean.** Don't share anything you wouldn't put up on the projector in class!
- **Mute your microphone when you are not talking.** This helps eliminate background noise. Be in a quiet place when possible.
- **Find a quiet, distraction-free spot to log in.** Turn off any music, videos, etc. in the background.
- **Stay on topic.** Use the chat window for questions and comments that are relevant to class. The chat window is not a place for socializing or posting comments that distract from the course activities. If you fill it up with random comments, I will be unable to sort through the information quickly to address students' real questions/concerns about the course.
- **No disrespect or hate speech.** Just like in our in-person class, respectful behavior is expected. Consider Zoom a professional environment, and act like you're at a job interview, even when you're typing in the chat

Please sign and return to instructor

I have read, understand, and agree to the class rules, grading and expectations outlined in this syllabi.

Student Name (Printed) Student Signature Date

Parent/Guardian Signature Date

Communication between parents and staff is extremely important for student success. In addition to email, I will be using an app called "Remind" to send out group reminder texts. Please provide all of the information specified below, indicate which type of contact you prefer and if you would like to be included in group reminder texts.

____ Parent Cell # _____

____ **I would Like to be included in group texts.**

____ Student Cell# _____

____ Parent Email _____

____ Student Email _____