

Cybersecurity for Beginners Syllabus

Instructor

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Email

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Office Hours

Question – contact returned within 1 business day

Feedback/grading – contact returned within 3 business days

*Your instructor can only be contacted digitally, so please use the “Student Discussions” section and above email for questions or concerns.

Course Overview

This course teaches PC and Mac users about various cybersecurity threats, such as malware, password breaches, and digital footprints. Once the learners know about the various threats, they will learn how to create secure passwords, and how to spot potential security risks. The learners will also learn about “digital footprints” and how to ensure their footprint is positive. The learners will then apply what they have learned about malware by completing a scan of their own computers. Finally, the learners will be educated on what to do if they are a victim of a cybersecurity attack.

The instructional goal of the course is for the participants to learn about a variety of cybersecurity threats and the best ways to increase their online safety.

Required Text

Not applicable, but access to the internet is required as the course contains multiple video and news links.

Pre-requisites

Learners will need to have a basic understanding of the following:

- Social media, Passwords, E-mail
- Online access
- Internet searches and search engines
- Internet and browser navigation

Learners will need to be able to use a keyboard and a mouse. In addition, they will need to have a basic understanding of how to navigate online, including clicking on hyperlinks, videos, etc.

Applicable Standards

ISTE Standard 2: Digital Citizen

Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and they act and model in ways that are safe, legal and ethical.

2d: Students manage their personal data to maintain digital privacy and security and are aware of data-collection technology used to track their navigation online.

For more on ISTE, please visit <http://www.iste.org/standards/standards-for-students-2016>.

Course Modules

Title	Topics	Application and Assessment	Approximate Time for Completion
Home	Instructor intro, navigation basics	Scavenger Hunt	15-30 minutes
Module 1: Malware	Types of malware	Match Game, Discussion Question, Quiz 1	60-90 minutes
Module 2: Passwords	Strong passwords, password management	Sorting Response, Discussion Question, Quiz 2	60-90 minutes
Module 3: Risks	Cybersecurity risks, predictions of risk	Sorting Response, Compare/Contrast Activity, Quiz 3	90-120 minutes
Module 4: Digital Footprints	Digital footprints, positive/negative digital footprint characteristics	Search and Reflect, Create a List of Tips, Short Presentation	90-120 minutes
Module 5: Scans	Malware programs, scanning a computer	Defend Response, Scan Computer	60-90 minutes
Module 6: Plans	Plan of action for cybersecurity problems	Evaluate Plan, Create Plan	90-120 minutes

Rubrics

Please click the links below to determine how assignments will be graded.

Assignment	Link
Scavenger Hunt	Automatically graded through Google Forms (multiple choice)
Match Game	Automatically graded through Quizlet
Student Discussions	Student Discussion Rubric
Module 1 Quiz	Automatically graded through Google Forms (multiple choice)
Google Forms Workbook	Google Forms Workbook Rubric
Module 2 Quiz	Automatically graded through Google Forms (multiple choice)
Module 3 Quiz	Automatically graded through Google Forms (multiple choice)
Presentation	Presentation Rubric
Computer Scan	Print screen placed in Google Forms Workbook will serve as proof of scan
Plan Creation: Final Task	Final Plan Project Rubric

Course Guidelines

Netiquette for Student Discussions:

1. Student discussions on each module page are to stay on topic regarding the question posted by the instructor.
2. Questions related to the course may be asked in the student discussions section of the module page.
3. No profanity, or the comment will not be approved.
4. If you link to another source, it must pertain to your reply.
5. No spamming.
6. Refrain from using “text speak”, such as LOL. This is an educational environment.

Participation and Verification of Course Completion:

If you choose to go through the course without doing the tasks, feedback cannot be given by the instructor. If all student tasks are completed, the instructor will provide feedback to the participant within 3 business days. A certificate of completion will also be attached to the email from the instructor.

Valid email addresses:

A valid email address is necessary to complete this course. Weebly is a public website, so participants may use alternate identifiers within the student discussions if they so choose.

Special Considerations for Participants of Other Abilities

Colorblindness – Consideration for participants with colorblindness was made when creating this course. Contrast between sections, with a primarily gray color scheme should allow participants with colorblindness to easily navigate the course.

Hearing – Consideration for participants with hearing ailments was made when creating this course. VoiceThreads and other videos created by the instructor have closed captioning. Additionally, most videos selected from other sources contain closed captioning. Autocaptions are also available through YouTube, but the autocaptions can have errors.

Vision – This course should function easily with read-aloud software.

Non-English Speakers – This course should function with the use of translation add-ons. If you would like to request assignments in another language, please contact the instructor.

Appendix

Student Discussion Rubric

Cybersecurity for Beginners Student Discussions Rubric

CATEGORY	Advanced	Proficient	Novice
Content	Post created by the participant relates back to the content learned, personal experience, and provides learning to other participants.	Post created by the participant relates back to the content learned and personal experience.	Post created by the participant is incomplete, such as answering only one of the questions asked.
Grammar	Post created by the participant is free from errors.	Post created by the participant contains 1-3 grammatical errors, but does not confuse the reader.	Post created by the participant contains more than 4 errors, and may confuse the reader.
Netiquette	Post created by the participant follows the netiquette rules from the syllabus and helps to maintain an educational environment.	Post created by the participant follows most of the netiquette rules.	Post created by the participant does not follow the netiquette rules, and does not help to maintain the educational environment.

Google Forms Workbook Rubric

6+1 Trait Writing Model : CFB Google Forms Workbook Rubric

CATEGORY	4	3	2	1
Focus on Topic (Content)	There is one clear, well-focused topic. Main idea stands out and is supported by detailed information.	Main idea is clear but the supporting information is general.	Main idea is somewhat clear but there is a need for more supporting information.	The main idea is not clear. There is a seemingly random collection of information.
Sentence Length (Sentence Fluency)	Every paragraph has sentences that vary in length.	Almost all paragraphs have sentences that vary in length.	Some sentences vary in length.	Sentences rarely vary in length.
Accuracy of Facts (Content)	All supportive facts are reported accurately.	Almost all supportive facts are reported accurately.	Most supportive facts are reported accurately.	NO facts are reported OR most are inaccurately reported.
Grammar & Spelling (Conventions)	Writer makes no errors in grammar or spelling that distract the reader from the content.	Writer makes 1-2 errors in grammar or spelling that distract the reader from the content.	Writer makes 3-4 errors in grammar or spelling that distract the reader from the content.	Writer makes more than 4 errors in grammar or spelling that distract the reader from the content.
Capitalization & Punctuation (Conventions)	Writer makes no errors in capitalization or punctuation, so the paper is exceptionally easy to read.	Writer makes 1 or 2 errors in capitalization or punctuation, but the paper is still easy to read.	Writer makes a few errors in capitalization and/or punctuation that catch the reader's attention and interrupt the flow.	Writer makes several errors in capitalization and/or punctuation that catch the reader's attention and greatly interrupt the flow.

Multimedia Project : CFB Presentation

CATEGORY	4	3	2	1
Presentation	Well-rehearsed with smooth delivery that holds audience attention.	Rehearsed with fairly smooth delivery that holds audience attention most of the time.	Delivery not smooth, but able to maintain interest of the audience most of the time.	Delivery not smooth and audience attention often lost.
Content	Covers topic in-depth with details and examples. Subject knowledge is excellent.	Includes essential knowledge about the topic. Subject knowledge appears to be good.	Includes essential information about the topic but there are 1-2 factual errors.	Content is minimal OR there are several factual errors.
Originality	Product shows a large amount of original thought. Ideas are creative and inventive.	Product shows some original thought. Work shows new ideas and insights.	Uses other people's ideas (giving them credit), but there is little evidence of original thinking.	Uses other people's ideas, but does not give them credit.
Organization	Content is well organized using headings or bulleted lists to group related material.	Uses headings or bulleted lists to organize, but the overall organization of topics appears flawed.	Content is logically organized for the most part.	There was no clear or logical organizational structure, just lots of facts.

Research Report : CFB Final Plan Project

Teacher Name: **Mrs. Cockrell**

Student Name: _____

CATEGORY	4	3	2	1
Organization	Information is very organized with well-constructed paragraphs and subheadings.	Information is organized with well-constructed paragraphs.	Information is organized, but paragraphs are not well-constructed.	The information appears to be disorganized. 8)
Amount of Information	All topics are addressed and all questions answered with at least 2 sentences about each.	All topics are addressed and most questions answered with at least 2 sentences about each.	All topics are addressed, and most questions answered with 1 sentence about each.	One or more topics were not addressed.
Quality of Information	Information clearly relates to the main topic. It includes several supporting details and/or examples.	Information clearly relates to the main topic. It provides 1-2 supporting details and/or examples.	Information clearly relates to the main topic. No details and/or examples are given.	Information has little or nothing to do with the main topic.
Mechanics	No grammatical, spelling or punctuation errors.	Almost no grammatical, spelling or punctuation errors	A few grammatical, spelling, or punctuation errors.	Many grammatical, spelling, or punctuation errors.