# COURSE SYLLABUS

Introduction to Network Security Foundations

CTS1120, Section #1556

Blended Instruction

0625, Fall: 2023

View [How to Be a Successful Student (Syllabus Addendum)](http://www.spcollege.edu/addendum/) which provides details about success factors and links to the most current version of fluid information, such as the academic calendar.

## WELCOME

Welcome to Network Security Foundations. This is a foundational course in which you will gain skills that you build upon during the course of your studies in Cybersecurity.

## INSTRUCTOR

**Name:** Professor Dawn Ellis

**Email:** ellis.dawn@spcollege.edu

**Phone:** 727.614.7025

**Office and Online Chat Hours:** Please visit my instructor page to see when I am on campus and not in class.

**Office Location:** ES213B, Clearwater Campus

**Instructor Webpage:** <https://web.spcollege.edu/instructors/id/Ellis.Dawn>

## ACADEMIC DEPARTMENT

### Dean

**Name: Norene Kemp**

**Office Location:** St. Petersburg/ Gibbs- TE116C

**Office Phone Number:** 727.341.7176

**Email:** kemp.norene@spcollege.edu

### Assistant Dean

**Name:**: John Long

**Office:**St. Pete/Gibbs, TE

**Email:** long.john@spcollege.edu

## COURSE INFORMATION

### Course Description

It is recommended that the student have previous computer network training or experience. This course provides the students with an overview of Information Technology (IT) Security and introduces the components necessary to secure network information systems. Topics include security policies, Intrusion Detection Systems (IDS), firewalls, operating system security and network security basics. Students will also be introduced to current hacker techniques and log auditing processes. Current computer security issues will also be explored as class projects.

### Course Goals

1. The student will understand the fundamentals essential to successfully protect and defend information systems.
2. The student will understand the role of each component necessary to secure information systems.
3. The student will understand the importance of security policies.
4. The student will demonstrate an understanding of IDS.
5. The student will understand the functions of access controls used for identification and authentication of users.
6. The student will understand the factors of authentication.
7. The student will understand the role and responsibilities of an information technology security officer.

The above MLOâ€™s are the minimum topics this course may cover this term.

### Course Objectives

[To Review the Course Objectives Please Select This Link](file:///C:\Users\Ellis.Dawn\Downloads\Syllabus.html%20(1)\Faculty%20Resources\Learning%20Outcomes%20&%20Objectives.html)

### Prerequisites

No Course Prerequisites.

### Availability of Course Content

All course components are open and available online.

### Other Critical Course Expectations

* It is the studentâ€™s responsibility to have the minimum technical requirements to take this online class (<http://www.spcollege.edu/ecampus/help/technical/index.htmhttp://www.spcollege.edu/ecampus/help/technical/index.htm).>
* This is an online or blended class; the student will also need to have access to a reliable Internet connection.
* Students should have access to a networked computer with Windows and Internet connection.
* The student can use any of our SPC computer labs, if needed

## REQUIRED TEXTBOOK & OTHER RESOURCE INFORMATION

Required Textbook

LMS Integrated for MindTapÂ® Computing, 1 term (6 months) Printed Access Card for Ciampaâ€™s CompTIA Security+ Guide to Network Security Fundamentals

Publisher Information: Ciampa, 7th Edition (Cengage), 2021

ISBN: 8220123248291

Recommended Text or Other Reading Material: Enter other recommended texts or reading material here

View the [Textbooks](http://www.spcollege.edu/textbooks/) site.

View the [SPC Libraries and Services](http://www.spcollege.edu/libraries/) site.

## LEARNER SUPPORT

View the [Accessibility Services](http://www.spcollege.edu/accessibility/) site.

View the [Academic Support and Student Success](http://www.spcollege.edu/support/) site.

View the [On Campus and Online Support](http://www.spcollege.edu/tutoring/) site.

View the [Student Services](http://www.spcollege.edu/services/) site.

## IMPORTANT DATES

**Course Dates:** Enter course beginning and ending dates here OR View the [Academic Calendar](http://www.spcollege.edu/calendar/).

**Drop Date:** Enter Drop date here OR View the [Academic Calendar](http://www.spcollege.edu/calendar/).

**Withdrawal Date:** Enter Withdrawal date here OR View the [Academic Calendar](http://www.spcollege.edu/calendar/).

**Proctored Testing Dates:** View the [Proctored Testing Information](https://mycoursessupport.spcollege.edu/proctored-testing-information).

**Financial Aid Dates:** View the [Financial Aid Dates](http://www.spcollege.edu/pages/dynamic.aspx?id=800).

## DISCIPLINE-SPECIFIC INFORMATION

Late submissions are NOT accepted.

You will also need to have access to at MS Office or Open Office (e.g., word processor, spreadsheet and presentation applications).

Refer to the basic technical requirements for online classes and to the section â€œOther Critical Course Expectationsâ€ in this course syllabus.

## ATTENDANCE

View the college-wide attendance policy included in [How to Be a Successful Student](http://www.spcollege.edu/addendum/).

The policy notes that each instructor is to exercise professional judgment and define â€œactive participationâ€ in class (and therefore â€œattendanceâ€), and publish that definition in each syllabus. For this class, attendance is defined as:

**Week 1** â€“ The student will be marked present for week one after they have completed all the assigned work due the first week of class. Failure to complete the work due for week one will mean the student was absent for week 1.

**Week 2** - The student will be marked present for week two after they have completed all the assigned work due the second week of class. Failure to complete the work due for week two will mean the student was absent for week 2.

**60% mark** - The student will be marked present at the 60% mark of the class after they have completed AT LEAST 80% of all the assigned work for Modules 1, 2, 3 and 4. Failure to complete the work due for these modules will mean you were not an active participant in this class at the 60% mark. â€œComplete the workâ€ means completing and submitting AT LEAST 80% (or more) of the tasks from the total number of tasks for Modules 1, 2, 3 and 4 combined. Empty files are not considered â€œsubmitted workâ€.

**AFTER the 60% mark**: If a student misses two weeks of discussion topics AT or AFTER the 60% mark, the student will be withdrawn from the class with a â€œWFâ€.

## GRADING

**LATE WORK WILL NOT BE ACCEPTED** â€“ The dropbox will disappear from view after the folder due date and will reappear once I have graded the submissions. Submissions will be graded (unless otherwise noted by the instructor) within 7 days from the due date (not the submission date).

Your class grade will be calculated by adding the number of points earned on assigned projects, quizzes and online participation for a total of 1085 points. The following grading scale will be followed:

90.0%-100% A

89.9%-80.0% B

79.9%-70.0% C

69.9%-60% D

59.9%â€“ 0 F

Grades are EARNED, not given. It is the studentâ€™s responsibility to earn the necessary points to ensure the successful completion of the course. Every point counts. Your points will be earned through (subject to changes).

Category:                                                                                                    Percentage

Discussion Forums 15%

Labs 45%

MindTap Quizzes 30%

Final Exam 10%

\*Subject to changes

How to check your Grades and review feedback:

* [Checking Your Grades](http://mycoursessupport.spcollege.edu/checking-your-grades)
* [Reviewing Dropbox Submissions](http://mycoursessupport.spcollege.edu/reviewing-a-dropbox-submission)
* [Checking Discussion Grades and Feedback](http://mycoursessupport.spcollege.edu/checking-discussion-grades-feedback)
* [Reviewing Quiz Submissions](http://mycoursessupport.spcollege.edu/reviewing-a-quiz)

## WEEKLY ASSIGNMENTS

All module folders will be made available at the beginning of the week (Sunday) and all module assignment due dates are set for Monday night at 11:55 pm with the exception of the Final Exam items. Refer to the Lessons link under the Contents tab in MyCourses (D2L) for specific assignment tasks and due dates.

Weekly activities are presented in various forms throughout the class. Unless otherwise indicated, all assignments are due no later than Monday of the following week at 11:55 pm.

Discussion Posts are to be completed weekly to insure your active status in the course (due dates are not negotiable).

Practical Lab Assignments will be completed each week and submitted to the associated dropbox. Specific details will depend upon the course modality (Blended or ONLINE). If blended you are required to complete these during the scheduled class meeting. THERE ARE NO MAKE-UPS IF YOU MISS CLASS.

Cengage MindTap Assignments are available in the MindTap environment and consist of the following graded assignments.

Weekly Unit Quizzes

Weekly Unit Simulation Labs

CompTIA Security+ Exam Practice Tests

FINAL EXAM

The final exam will be administered during the last week of class and consists of the CompTIA Security+ Post Assessment Exam in Module 8 of the MindTap environment. For IN-CLASS sections please check with your instructor as to whether attendance is required during Final Exam week.

Due to the time constraints of this course, falling behind in your coursework in this course is not an option.

According to Florida State Statute 6A-10.033, students must spend a minimum 2,250 minutes of in class time during a 3-credit course. Additionally, students enrolled in a 3-credit course are expected to spend a minimum of 4,500 minutes of out-of-class-time specifically working on course-related activities (i.e., reading assigned pieces, completing homework, preparing for exams and other assessments, reviewing class notes, etc.) and fulfilling any other class activities or duties as required.â€ The course schedule for this course reflects this expectation of students.

## STUDENTS' EXPECTATIONS AND INSTRUCTOR'S EXPECTATIONS

### Required Interaction

Online /Student Conduct

<http://www.spcollege.edu/ecampus/help/conduct.htm>

Online Student, Faculty and Staff Expectations and Performance <Targets:http://www.spcollege.edu/ecampus/help/expectations.htm>

### Participation, Conduct, and Netiquette

SPC has outlined expectations for student behavior and interaction for online discussions, email, and other forms of communication. View the Student Expectations in [How to Be a Successful Student](http://www.spcollege.edu/addendum/).

Netiquette: Also see Student Expectations found in the [Syllabus Addendum](%20http://www.spcollege.edu/addendum/).

### Academic Honesty

View the [Academic Honesty Policy](http://www.spcollege.edu/academichonesty/).

### Copyright

Copyrighted material within this course, or posted on this course website, is used in compliance with United States Copyright Law. Under that law you may use the material for educational purposes related to the learning outcomes of this course. You may not further download, copy, alter, or distribute the material unless in accordance with copyright law or with permission of the copyright holder. For more information on copyright visit: [www.copyright.gov](http://www.copyright.gov).

## TURNITIN

The instructor of this course may require use of Turnitin.com as a tool to promote learning. The tool flags similarity and mechanical issues in written work that merit review. Use of the service enables students and faculty to identify areas that can be strengthened through improved paraphrasing, integration of sources, or proper citation. Submitted papers remain as source documents in the Turnitin database solely for the purpose of detecting originality. Students retain full copyright to their works. Review the [Turnitin Usage Agreement](https://turnitin.com/agreement.asp). Students who do not wish to submit work through Turnitin must notify their instructor via course email within the first seven days of the course. In lieu of Turnitin use, faculty may require a student to submit copies of sources, preliminary drafts, a research journal, or an annotated bibliography.

View the [Reviewing a TurnItIn/Originality Report](https://mycoursessupport.spcollege.edu/reviewing-a-turnitin-report) tutorial.

## STUDENT SURVEY OF INSTRUCTION

The Student Survey of Instruction is administered in courses each semester. It is designed to improve the quality of instruction at St. Petersburg College. All student responses are confidential and anonymous and will be used solely for the purpose of performance improvement.

## TECHNOLOGY

### Minimum Technology Requirements

View the [Technical Requirements for MyCourses](https://mycoursessupport.spcollege.edu/technical-requirements-for-mycourses).

View the [Technical Requirements for MindTap](http://assets.cengage.com/pdf/gui_mt-stu-syst-req-pc.pdf).

### Minimum Technical Skills

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| --- | --- |
| **Item** | Recommended Minimum Technology Requirements for CCIT  Programs |
| **Processor** | Dual-core processor (Intel or AMD) |
| **Memory** | 4 GB (or higher) |
| **Disk Storage** | Adequate free space for storage of class files |
| **Video Card** | 256 MB (or higher) |
| **Monitor/Speakers** | 15â€ or larger Flat LCD Panel |
| **Media Drive** | 16x DVD +/- RW |
| **Operating System** | Windows 7 (or higher) |
| **Network Interface** | High Speed Broadband Internet Connection (Cable or DSL) |
| **Software** | Microsoft Office Suite 2010 or later with the following:   * Word * Excel * Access * PowerPoint |
| **Access requirements** | Reliable and daily access to a personal computer (PC) from day 1 of class as below:   * Ability to download/upload documents and files * Browsers:   + o   Internet Explorer (version 11 or higher)   + o   Firefox (version 31.0 or higher   + o   Google Chrome 36.0 |
| These are the minimum suggested technology requirements necessary to complete the programs within CCIT. All students and instructors are required to have access to a personal computer, personal high speed access to the Internet, and a college provided email account. The â€œminimum requirementsâ€ pertain to Windows Operating System compatible personal computers. These minimum requirements are a general recommendation for all CCIT courses. Some courses may have additional software and hardware requirements in order for students to be successful.  NOTE: Mac computers are not acceptable for most of the courses and may cause the student undue frustrations. Instructors do not support issues with Mac computers. | |

Students should know how to navigate the course and use the course tools. Dropbox-style assignments may require attachments in either Microsoft Word (.doc or .docx) or Rich Text Format (.rtf), so that they can be properly evaluated. If an attachment cannot be opened by the instructor, students will be required to re-format and re-submit an assignment so that it can be evaluated and returned with feedback.

MyCourses tutorials are available to students new to this LMS and are located at the beginning of the course. Most features on MyCourses are accessible on mobile devices, although it is recommended that you use a computer for quizzes, tests, and essay assignments.

### Accessibility of Technology

This course is designed to be welcoming to, accessible to, and usable by everyone, including students who are English-language learners, have a variety of learning styles, have disabilities, or are new to online learning. Be sure to let me know immediately if you encounter a required element or resource in the course that is not accessible to you. Also, let me know of changes I can make to the course so that it is more welcoming to, accessible to, or usable by students who take this course in the future.

If you have documentation of a disability or feel you may have a disability:

St. Petersburg College recognizes the importance of equal access to learning opportunities for all students. Accessibility Services (AS) is the campus office that works with students who have disabilities to provide and/or arrange reasonable accommodations. Students registered with AS, who are requesting accommodations, are encouraged to contact their instructor by the first week of the semester. Students who have, or think they may have, a disability (e.g. learning disability, ADD/ADHD, psychiatric, medical/orthopedic, vision, and/or hearing), are invited to contact the Accessibility Coordinator (AC) that serves your campus for a confidential discussion. To find your AC for your specific campus, please go to the college-wide Accessibility Services website: <https://www.spcollege.edu/accessibility>

#### Accessibility Statements

* [MyCourses (Brightspace by Desire2Learn) Accessibility](https://www.d2l.com/accessibility/)
* [Turnitin Accessibility](http://turnitin.com/en_us/about-us/accessibility)
* [Google (YouTube) Accessibility](https://www.google.com/accessibility/)
* [MindTap Accessibility](http://www.cengage.com/accessibility/)

### Privacy

* [MyCourses (Brightspace by Desire2Learn) Privacy](https://www.d2l.com/legal/privacy/)
* [Turnitin Privacy](http://turnitin.com/en_us/about-us/privacy)
* [YouTube Privacy](https://www.youtube.com/static?template=privacy_guidelines)
* [MindTap Privacy](http://www.cengage.com/legal/)
* [NetLab+ Privacy](https://www.netdevgroup.com/sitedocs/legal/privacy_policy.html)

**ESSENTIAL SKILLS AND TECHNICAL STANDARDS**

The field of computers and information technology is intellectually and at times physically challenging. The Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973 ensure that qualified applicants have the ability to pursue program admission. However, all students must meet the essential skills and technical standards required of the St. Petersburg College of Computer and Information Technology Programs with or without reasonable accommodations for admission and completion of the program to prepare for the profession of study. Each student will be held to the same standards with or without reasonable accommodations. Our focus is the student and to best prepare him or her for the profession. Our goal is for them to enter and complete the program without barriers.

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| --- | --- | --- |
| **COMPETENCY** | **ESSENTIAL FUNCTION** | **EXAMPLES OF REQUIRED FUNCTIONS**  **(not all inclusive)** |
| Interpersonal Communication | Customer service, human relations and communication skills sufficient for effective interaction with others, whether in verbal or oral formats. | Â·       Communicate effectively with clients and team members by displaying excellent verbal/oral, written and listening skills.  Â·       Ability to demonstrate appropriate positive social skills to interact with clients, team members and colleagues. |
| Critical Thinking | Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems. | Â·       Demonstrate ability to conceptualize, analyze, synthesize, and evaluate a problem and propose an adequate solution.  Â·       Analyze and evaluate problems to determine if given data and information will produce required outputs. |
| Complex Problem Solving | Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions. | Â·       Capacity to solve novel, ill-defined problems in a complex, real-world setting.  Â·       Ability to reduce a complex problem to a series of ordered steps.  Â·       Identify both positive and negative factors that could impact the solution to a problem and prepare measures to manage those factors. |
| Computation | Applying the knowledge of mathematics to solve problems. | Â·       Identify mathematical and statistical analysis procedures needed to develop a solution.  Â·       Ability to apply similar problem solving techniques utilized in mathematics to solve logical computing and technology problems. |
| Computers,  Networks and Security | Knowledge of computer, security and networking hardware and software, including applications. | Â·       Demonstrate visual acuity to identify specific computer hardware components, component types, wire colors, etc.  Â·       Ability to manage hardware/software applications in a networking environment including project development.  Â·       Provide support for equipment installation, maintenance, and repair.  Â·       Capability to troubleshoot and maintain network installations given a specific problem scenario.  Â·       Identify relevant policies, procedures and strategies to promote effective security operations for the protection of people, data, property and institutions. |
| Professional | Broad understanding of the industry and demonstrated networking and security technical skills | Â·       Maintain knowledge of the tools, techniques and resources to remain current in the IT field.  Â·       Ability to complete an internship in the IT field.  Â·       Develop the skills needed to take the aligned industry certification(s). |

If a student cannot demonstrate the abilities above, it is the responsibility of the student to request an appropriate accommodation with Accessibility Services. Please contact the Accessibility Coordinator on your campus or visit [www.spcollege.edu/accessibility](http://www.spcollege.edu/accessibility). Determination of a reasonable accommodation will be made on an individual basis and the accommodation cannot fundamentally alter the nature of the program offered, impose an undue hardship, or jeopardize safety.

### Technical Support

Technical support is available via the [Technical Support Desk Call Center](https://mycoursessupport.spcollege.edu/technical-support-desk-call-center).

## INSTRUCTIONAL CONTINUITY PLAN - EMERGENCY PREPAREDNESS POLICY

The St. Petersburg College website at [www.spcollege.edu](http://www.spcollege.edu/) is the official source of college information regarding the status of the institution. Other important information will be communicated via SPC Alert, local media outlets, and the college toll-free phone number 866-822-3978. All decisions concerning the discontinuation of college functions, cancellation of classes, or cessation of operations rest with the President or his/her designee. The College realizes that it is possible for a significant natural disaster to compromise SPC campus facilities sufficiently to disrupt the delivery of classes on campus/campuses for an extended period of time, and is planning ways our operations can continue following such an emergency.

So, in the event that a hurricane or other natural disaster causes significant damage to St. Petersburg College facilities, you may be provided the opportunity to complete your course work online. Following the event, please visit the college website for an announcement of the College's plan to resume operations.

Further, in the event of such a disaster, the instructor will continue using the Learning Management System (LMS) of MyCourses for continuation of all required learning and instructional activities in this course, including the issuing of graded online assignments and expectation of student completion of those graded assignments.

Therefore, in order to keep up with all activities in this course during and after a natural disaster, please plan to continue this course by maintaining online access to MyCourses in lieu of meeting in a classroom - possibly through duration of the course's regularly scheduled end date. We will finish this course in MyCourses, as directed by your instructor online, and your instructor will use all graded assignments - both online and formerly on-campus - to assess and issue your final letter grade for this course, as normally planned, despite occurrence of the natural disaster.