Our Mission: The mission of Olive-Harvey College is to develop a diverse community of cultural and civic leaders and to advance progressive global citizenship through academic excellence, work-based learning, and comprehensive support services.

COURSE SYLLABUS

Instructor Information

Name: Md Ali

CCC Email: mali220@ccc.edu

Student Office Hours: By appointment only. I will be available for multiple time slots due to the Summer session. Make sure to email me to set up a time.

Office Hours Location: Zoom Link or 2315

Phone: 773-291-6248 ext 66724

Instructor Introduction and Expectations: When emailing me about any issues, challenges, questions, or concerns, please make sure the "Subject Line" start with your class title and your name. e.g. COMPSFI 102 – Md Ali. Emails directed to me will need to be from your student email.

Welcome! I wish you the very best learning experience in this course. I will provide you with information, opportunities, tools, and support to help you succeed in this course and to help prepare you for future academic and professional pursuits. To be successful in the course, you will need to check your email and log in to the course in Brightspace regularly (at least three times per week), participate in our scheduled class sessions in Zoom, be honest in your work, and maintain a productive work schedule. I will make myself available to you during my student office hours, am available to meet with you virtually by appointment, and will answer emails and voicemails received Monday-Friday within 24 hours. If you ever feel you are falling behind or need assistance, please contact me promptly. Below you will find key course information. Read this syllabus carefully and let me know if you have any questions.

Course Information

Current Semester and Year: Summer 2025

CCC Course Subject and Catalog Number: COMPSFI 102

Course Title: Information Security Essentials

Course Modality: Remote

Current Catalog Description: find description at https://catalog.ccc.edu/courses-az/cis/

Prerequisite(s): CIS 116 or COMPSFI 101 or NET TEC 121 or consent of department chairperson

Lecture Hours: 2

Lab Hours: 2

Credit Hours: 3

Section Information

Section: COMPSFI 102 KM/KMX

Five Digit Course Number: 32772/32773

Length of Course: 8 weeks

Scheduled Class Days and Times: Tuesdays and Thursdays 6:00pm-9:50pm

Zoom Link: https://cccedu.zoom.us/j/93682905207

In Person Class Meeting Day(s) Time(s): N/A

Required Textbook(s): CompTIA Security+ Guide to Network Security Fundamentals

Bookstore: https://www.ccc.edu/departments/pages/bookstores.aspx

Technology Requirements: Computer and Internet access, word processing application

Course Objectives

This course will acquaint and train students in programming, including the following:

1. Provides students with an introduction to key concepts and terminology relating to Information

Security and Assurance

2. Allows the student to develop a basic understanding of the prevailing practices in Information

Security and Assurance

3. Covers a practical overview of the issues and challenges involved in the field of Information Security

and Assurance

4. Provides students with an understanding of Information Security's importance in today's

interconnected world

5. Develops a "security mindset" for students and allows them to communicate and discuss Information

Security and Assurance topics

6. Offers students the opportunity to work and interact collaboratively in small groups to examine,

understand and explain key aspects of Information Security and Assurance

Methods of Instructon

All instruction will be synchronous remote through Zoom. Mondays will be lectures and discussion based while Wednesdays will be lab day.

Course Website:

https://brightspace.ccc.edu

https://xxxspicyboiiixxx.github.io/COMPSFI-102/

Brightspace Access Instructions

To access Brightspace, go to **https://brightspace.ccc.edu** and enter your CCC user name and password. Your course will appear once you are logged in. If you do not have (or forgot) your CCC username and password, go to **my.ccc.edu** and click on *Need Help Logging In*.

Online Course Tools

Two primary platforms will be used for instruction in this class. Brightspace is a learning management system and is where you will find the course syllabus, materials, and resources. Zoom is a virtual video meeting platform and is where you will be expected to be during scheduled virtual class sessions. You can familiarize yourself with these platforms at http://success.ccc.edu/d2l.

Methods of Assessing Student Outcomes

Student Learning Outcomes

Upon successful completion of the course, students will be able to:

1. Recognize and discuss security problems, the limitations of technology, and solutions to those problems
2. Discuss the technical terminology used in the Information Security field
3. List the components of information systems and explain how they can fail
4. Identify internal and external threats and vulnerabilities that apply to Information Systems
5. Identify appropriate controls and countermeasures for common threats
6. Discuss the human factor and its relationship to the organization and to the Information Systems that support the organization's operations
7. Apply some of the tools and processes used to conduct an information security risk assessment
8. Apply network security fundamentals and how to secure a network
9. Carry out Access Control and Identity Management fundamentals
10. Apply cryptography concepts to secure a network
11. Identify issues with Application, Data and Host Security

Assessment Distribution

Category	Points/Percentage
Attendance/Participation	5%
Quizzes	10%
Assignments	30%
Lab Assignments	25%
Exams	30%
Total	100%

Grading Scale

Grade	Percentage Range	Description
A	90%-100%	4.0
B	80%-89%	3.0
C	70%-79%	2.0
D	60%-69%	1.0
F	<60%	0.0

Assignment Descriptions

Mastery of course objectives will be evaluated through quizzes, Lab assignments, lab exercises, and a class projects/paper. Final grades along with final exam scores will be posted on Brightspace. The grades for the class are calculated based on the following:

Assignments: There will be writing and technical assignments throughout the course to validate that you are keeping up with the reading.

Quizzes: There will be a total of 16 quizzes on essential terminology and core concepts from each chapter. There is no make up for quizzes. Unless otherwise stated in class or posted on Brightspace. All quizzes are online and can be tried three (3) time. Best score will be counted.

Labs: These will be hands on and you will have lab assignments due the next lab day that require a report output and any technical documentation needed.

Exams: There will be one midterm and one final

Instructor Policies

There is a direct correlation between regular attendance and passing grades. Students have the chance to earn the grade they which to receive provided they attend class, participate and study. Your attendance is mandatory for the remote Zoom sessions.

Class Learning Environment

Explain what students can expect from you during synchronous class time and what you expect from students during class time. Best practice is to focus on desired behaviors rather than prohibited ones.

Attendance

Attendance is part of your grade as well as participation. You will need to show up to every class unless there is an emergency. If there is, please email me.

Late and Make-Up Work

For every late day, you will be penalized 10% of the original score. If 5 days have passed, I will not accept your late work.

Extra Credit/Bonus Points

Extra credit opportunities will be presented throughout the semester.

Active Pursuit Criteria

Active pursuit **cannot be tied to a specific grade**. It is a measure of a student's participation in class via attendance and the completion of coursework. In short, a student can be failing while actively pursuing the course. You cannot drop a student who is academically struggling as long as they are attending and turning in course work. Active pursuit should be measured by class participation, taking required examinations, quizzes, submission of required papers, work assignments and class attendance. A sample is below:

> *Students who are not actively pursuing the course at midterm may be administratively withdrawn from the course and receive an "ADW" on their transcript. Active pursuit is the completion of assignments, in-class-projects and general activities of the class, as well as maintaining attendance that allows you the opportunity to effectively succeed in the course. Students will be considered as actively pursuing this course if they meet the following criteria at midterm:*
>
> - *Completion of at least 50% of assigned assessments and*
> - *Participation in at least 50% of class sessions*

<u>Resources for Student Success – Students: Keep Learning</u>

Navigate

Navigate is a comprehensive student support system that brings together students, faculty, advisors, and other support staff to assist students from enrollment to graduation and beyond. Students use Navigate to schedule appointments with key support departments such as Advising, Tutoring, and Financial Aid. Faculty use Navigate to communicate with students and support staff any concerns, attendance, course progress, and at-risk of failing alerts. To access Navigate, log in to your student portal at my.ccc.edu.

Academic Support – Virtual Tutoring

Students are encouraged to get help and support with their studies by participating in individual and group tutoring through the Academic Support Services Department. Olive-Harvey's Academic Support Center offers free tutoring and academic support services to assist students in achieving personal and academic success. We encourage any student to seek tutoring to gain a deeper comprehension of course content and to enhance learning development. For more information or to schedule an appointment with a tutor, please go to my.ccc.edu and look for the "NAVIGATE" button. Further instructions on how to proceed will be given after clicking the button. For more information, please email us at OHC-Ask-A-Tutor@ccc.edu. Virtual Student Support Services is available at https://prepare.ccc.edu/virtual-student-services/.

Tutoring is offered in most subjects taught at the campus. We also provide supplemental instruction for our sciences, and other workshops that can help you on your academic journey.

Advising

Academic Advisors are available to assist you at every stage of your education at Olive-Harvey College — from clarifying education and career goals, to academic planning, to helping you succeed along your journey through graduation. Students can make an appointment to meet with their academic advisor by going to the Navigate system via your student portal at my.ccc.edu or speak with an Advisor virtually via Zoom https://cccedu.zoom.us/j/9093854051 or by going to the Virtual Student Service site at https://prepare.ccc.edu/ohvss/ .

Career Planning and Placement

Olive-Harvey's Career Planning and Placement provides comprehensive services to help you make informed decisions about your career plan. These services help you to prepare for a diverse and changing job market. Career Planning and Placement provides one-on-one career planning sessions, career and personal assessments, resume and cover letter assistance, interview and networking preparation, and internship and job search strategies. Virtual walk-in hours and appointments are available by going to the Virtual Student Service. Call or email career services for an appointment at 773/291-6366 or OHC-CareerServices@ccc.edu Email your appointment requests or questions to OHC-CareerServices@ccc.edu.

Computer Labs

Olive-Harvey College provides computer lab access for City Colleges of Chicago students. Computers and printing are available for students to write a paper, research for class, or check email in 2423, 3207, L426G, and SCLC 016. Student IDs are required. Visit Olive-Harvey College Labs and hours of operation at https://www.ccc.edu/colleges/olive-harvey/menu/Pages/Computer-Labs.aspx.

Disability Access Center

The Disability Access Center (DAC) works directly with students and in coordinaton with faculty and administrators to facilitate reasonable accommodations for students with documented disabilites. The DAC strives to remove barriers to equal access and create a campus environment of inclusivity. Any student with a disability, including a temporary disability, who requires accommodations, should contact the Disability Access Center as soon as possible. It is the student's responsibility to contact the Disability Access Center and no accommodations will be made in the classroom unless directed and approved by the Disability Access Center. The contact informaton is as follows: (773) 291-6170, Patrice Henderson, phenderson10@ccc.edu Google Voice: 773-340-2067, or via Zoom: https://cccedu.zoom.us/j/96254427668

Library – Virtual Services

Need help with finding sources for a paper, assignment, or other information need? Librarians are available to provide you with virtual assistance, Monday-Wednesday from 8:30am-6:00pm and Thursday from 8:30am-5:30pm. Please visit the Olive-Harvey College Library's website at https://www.ccc.edu/colleges/olive-harvey/departments/Pages/Library-System.aspx to connect with a librarian and access library resources.

Student Activities Center/Get Involved with Student Clubs/Organizations

The Office of Student Activities enhances the student experience through exposure to and engagement in co-curricular programming, events, leadership development, and student clubs. Students that want to

gain or enhance leadership skills, participate in event planning and become peer advocates should strongly consider joining our student-led clubs and organizations. For more information, visit www.ccc.edu/studentorganizations or Monice Purnell mpurnell5@ccc.edu

Transfer Center

The Transfer Center is here to help you transition to your dream school. The Transfer Center provides 1:1 transfer advising, scholarship research assistance, campus tours, visits from college and university representatives, transfer fairs and information sessions, application and waiver assistance (to those who qualify), and exposure to articulation and transfer agreements, and other resources. Currently, services are being delivered virtually. Please email Tyanna McCann (Director of the Transfer Center) at tmccann3@ccc.edu to ask any of your transfer questions, schedule a zoom meeting or conference call. Remember it is never too soon to talk about the transfer process. The Transfer Center looks forward to assisting you.

Veteran Services Center

The Veterans Services Center is a centralized, on-site source of support and access to military affiliated information and resources. Our mission is to improve the capability, resources, well-being and success of all Military Affiliated Students (M.A.S.) attending Olive-Harvey College, and to assist them with transferring to four-year institutions, veteran internships, and entering the workforce. The Veterans Services team is staffed by veterans and skilled professionals who understand the unique challenges our veterans and military families face when transitioning from active duty service to civilian college life. If you or anyone in your immediate family has served, we encourage you to learn about your benefits and opportunities we provide! Schedule a Zoom appointment with gvillagomez13@ccc.edu, or call (773) 602-5152 to learn more.

Wellness Center

If you are struggling with personal or academic issues; including challenges dealing with classes and studying, relationship issues, feelings of depression or anxiety, issues related to gender/sexual identity, career, parenting, grief and loss (including loss of loved ones through violence), or other issues hindering your student success, free and confidential services are available virtually through the Wellness Center. Our Virtual Wellness Center Hours are: Monday-Thursday 9am-5pm and Friday 9am -Noon. No appointment necessary! To meet with a Wellness Center Staff on Zoom during our business hours, please click here: **Virtual Student Services, All Campuses** and then choose your home campus, or visit the website at **OHC Wellness Center.**

One Million Degrees

Olive-Harvey and One Million Degrees have partnered up to provide OHC students necessary support to keep students on track to graduate. In this program you will receive up to $1,000 in financial stipends (that's free money!), one-on-one support to help you succeed at OHC and other support services to keep you connected to the OHC community to ensure you graduate successfully. This is a FREE program and you may have already been selected! All you need to do is check your CCC email (search "OMD") and follow the next steps to secure your spot in the program. If you have any questions head to room 1410 for more information OR email olive-harvey@onemilliondegrees.org

College Policies

No Show Withdrawal (NSW)

NSW – No-Show Withdrawal Students are required to attend class.

- Students will be issued a no-show withdrawal (NSW) under the following circumstances

    o Courses that meet more than once per week: students who do not attend the first two (2) class sessions will be withdrawn from the class by the instructor and issued an NSW.

    o Courses that meet once per week: students who do not attend the first class session of a course which meets only once per week will be withdrawn from the class by the instructor and issued an NSW.

NSW – No-Show Withdrawal from Online Courses

- Students registered in online classes will be issued a no-show withdrawal (NSW) if they do not pursue academic activities within the online environment of the course on at least two separate days prior to the statistical (STAT) reporting day of the class

Administrative Withdrawal (ADW)

A student may be awarded an administrative withdrawal (ADW) at midterm if the instructor determines that the student is not actively pursuing completion of the course, based upon the instructor's active pursuit criteria.

A student in an ONLINE class may be awarded an administrative withdrawal (ADW) between midterm and the last day for student-initiated withdrawal if the instructor determines that the student is not actively pursuing completion of the class, based upon the instructor's active pursuit criteria.

Student Code of Conduct

All students are expected to review and abide by the rules and policies outlined in the Academic and Student Policy, which can be accessed at https://www.ccc.edu/menu/Pages/Policies.aspx.

Academic Integrity and Dishonesty

CCC is committed to the ideals of truth and honesty. Students are expected to adhere to high standards of honesty and integrity in their academic endeavors. Plagiarism and cheating of any kind are serious violations of these standards.

Academic dishonesty is a serious offense, which includes but is not limited to the following: cheating, complicity, fabrication and falsification, forgery, and plagiarism. Cheating involves copying another student's paper, exam, quiz, or use of technology devices to exchange information during class time and/or testing. It also involves the unauthorized use of notes, calculators, and other devices or study aids. In addition, it includes the unauthorized collaboration on academic work of any sort. Complicity, on the other hand, involves the attempt to assist another student to commit an act of academic dishonesty. Fabrication and falsification, respectively, involve the invention or alteration of any information (data, results, sources, identity, etc.) in academic work. Another example of academic dishonesty is forgery, which involves the duplication of a signature in order to represent it as authentic. In addition, students

who reuse their own material (coursework, published material, research, etc) must receive approval from their current instructor prior to submitting work used in another class, otherwise this may be considered a form of plagiarism. Lastly, plagiarism involves the failure to acknowledge sources (of ideas, facts, charges, illustrations, etc.) properly in academic work, thus falsely representing other source material as one's own work. The use of artificial intelligence tools without the explicit permission of the instructor is a form of academic dishonesty.

In individual cases of academic dishonesty, sanctions may include one or more of the following: an F grade on an assignment where academic dishonesty occurred, a written warning, a failing grade for the course, and/or issuing of an academic dishonesty withdrawal (see ADH – Academic Dishonesty Withdrawal). The severity of the penalty is left to the discretion of the instructor, except the issuing of an academic dishonesty withdrawal which requires Vice President approval. A student may appeal a finding of academic dishonesty (see Appeal Instructional Grading, Academic Dishonesty).

Additional sanctions may be imposed up to and including dismissal from CCC when circumstances warrant it and/or the revocation of a previously awarded degree or certificate (see Revocation of Degrees or Certificates). A student may appeal additional sanctions (see Disciplinary Hearings and Appeal of Discipline).

Federal and State Statues and Mandates

Americans with Disabilities Act (ADA)

In accordance with the Americans with Disabilities Act and Section 504 of the Federal Rehabilitation Act of 1973, the City Colleges of Chicago makes every effort to integrate students with disabilities into all courses and programs. Accommodations, based on the documentation received and the needs of the student, are designed to ensure that students, who are otherwise qualified, receive equal access to all of CCC's programs and services. CCC does not alter fundamental academic requirements, but it makes reasonable accommodations for students with documented disabilities. If you have a disability for which you may require accommodations, please contact the Disability Access Center at (773) 291-6170, Patrice Henderson, phenderson10@ccc.edu Google Voice: 773-340-2067.

Federal Family Education and Rights Privacy Act (FERPA)

Our college also abides by federal privacy laws on behalf of students and employees. For more information, go to **www.ed.gov/policy/gen/guid/fpco/ferpa/index.html**.

Title IX

City Colleges of Chicago values the health and safety of every individual on campus and expects students and employees to treat other persons with respect and dignity. Title IX represents the federal law designed to prevent sexual assault and harassment of students on college campuses and promote gender equity in education. Title IX protects you from sexual assault, sexual harassment, and stalking on campus grounds. This includes protection from gender-based violence between any of the following groups: men, women, transgender people, and gender non-conforming persons. By filing a Title IX complaint, you have the right to ask for an Equal Opportunity (EEO) Office internal investigation and reasonable academic accommodations.

Please visit https://www.ccc.edu/services/Pages/TitleIX-And-You.aspx to learn more about your rights and how to file a complaint. Note that a student has 180 DAYS from the date of the incident to file their complaint, even if the academic term is over.

We are here to support you. We understand that sexual harassment, sexual assault, and stalking can be difficult to discuss, and that many factors may be involved, including disability, race, religion, gender expression, academic stress, or a relationship with the assailant. Please note that all CCC staff, with the exception of the Wellness Center are mandated reporters, and must file a complaint, even if you should choose not to. The Wellness Center respects confidentiality is not required to report your assault, unlike most faculty and staff under Title IX policy. The Wellness Center provides free and confidential counseling services and referrals to help you determine what is best to do for your self-care and healing.

Topical Outline/Course Calendar

Week	Topic
06/09/2025	Introduction to Information Security (Chapter 1) Pervasive Attack Surfaces and Controls (Chapter 2) Fundamentals of Cryptography (Chapter 3)
06/16/2025	Advanced Cryptography (Chapter 4) Endpoint Vulnerabilities, Attacks, and Defenses (Chapter 5)
06/23/2025	Mobile and Embedded Device Security (Chapter 6) Identity Access Management (Chapter 7) Review Midterm (Chapter 1-7)
06/30/2025	Infrastructure Threats and Security Monitoring (Chapter 8) Infrastructure Security (Chapter 9) Wireless Network Attacks and Defenses (Chapter 10)
07/07/2025	Cloud and Virtualization Security (Chapter 11) Vulnerability Management (Chapter 12) Incident Preparation and Investigation (Chapter 13)
07/14/2025	Oversight and Operations (Chapter 14) Information Security Management (Chapter 15)
07/21/2025	Final Review and Finals

*This schedule is tentative