

CIT - 219 - Secure Computer User

2025-2026 Course Proposal Form

Course Information

- Please select which best fits this course proposal:*
- Course New/Reactivation Proposal
 - Course Revision Proposal
 - Course Retirement Proposal
 - Course Outcomes Revision Proposal

Department*

Computer Information Technology

IF proposing a new course type or prefix, please select "NEW Course Type or NEW Prefix" from the dropdown and input the requested data in the new text field that follows.

Course Type:*

Computer Information Technology

NEW Course Type: N/A

NEW Prefix: N/A

Prefix:*

CIT

Course Number:* 219

Course Title:* Secure Computer User

Credit(s):* 3

Course Description:*

This course is designed to provide students with necessary knowledge and skills to protect their information assets. This course will help students identify and mitigate various information technology security threats such as computer and network security threats, identity theft, credit card fraud, online banking phishing scams, virus and backdoors, emails hoaxes, social engineering, IoT and Remote working threats.

Lecture Hours:* 3

Laboratory Hours:* 0

Clinical Hours:* 0

Internship Hours:* 0

Prerequisite(s): CIT 123 and CIT 220

Corequisite(s): N/A

Pre / Corequisite(s): N/A

Required Materials* Check the College Bookstore for Required Materials.

Course Learning Outcomes:* Upon successful completion of this course students will be able to:

1. Outline the threats associated with data and elements of data security
2. Implement OS security measures
3. Analyze the different online threats and their countermeasures
4. Identify the various security risks associated with IoT devices and their countermeasures
5. Identify the different threats posed to a cloud account and their countermeasures

**Student Learning
Outcomes:***

1. Define data and differentiate between data and information. (CLO 1)
2. Recognize the importance of personal and organizational data. (CLO 1)
3. Identify various threats to data and understand data security risks. (CLO 1)
4. Explain the elements of security. (CLO 1)
5. Understand potential losses due to data compromise. (CLO 1)
6. Describe how to implement data security. (CLO 1)
7. Create and modify a user account passwords and user permission on a Windows system (CLO 2)
8. Enable or disable Windows system functionalities such as updates, firewalls, applications, BitLocker, Windows defender etc. (CLO 2)
9. Understand Windows Encrypting File System (CLO 2)
10. Create and or modify user accounts password or user permissions on a Mac system (CLO 2)
11. Enable and or disable Mac system functionalities such as automatic login, automatic updates, firewalls, FileVault etc. (CLO 2)
12. Understand what malware is and identify the various types of malware (CLO 3)
13. Recognize different types of malware and their symptoms. (CLO 3)
14. Understand antivirus software functionality and limitations. (CLO 3)
15. Apply basic security measures when online. (CLO 3)
16. Evaluate threats posed by web browsers, instant messaging apps, and social networking. (CLO 3)
17. Configure security settings for Facebook, Twitter, and email clients. (CLO 3)
18. Set up home and wireless networks securely. (CLO 3)
19. Identify threats to wireless networks and apply countermeasures. (CLO 3)
20. Understand the basics of mobile security and its importance (CLO 4)
21. Understand the importance of a mobile phone's IMEI number for security. (CLO 4)
22. Recognize risks associated with mobile devices and Bluetooth. (CLO 4)
23. Describe security procedures for Android and iOS devices. (CLO 4)
24. Identify various mobile security tools. (CLO 4)
25. Understand IoT devices and associated security risks. (CLO 4)

26. Understand the various types of clouds available and their different services. (CLO 5)
27. Recognize the advantages of using cloud services. (CLO 5)
28. Identify privacy issues related to cloud accounts and methods to address them. (CLO 5)
29. Choose an appropriate cloud advisor based on individual needs. (CLO 5)
30. Understand the importance of data backups and reasons for data loss incidents. (CLO 5)
31. Determine which files to back up and when to perform backups. (CLO 5)
32. Create and restore backups on both Windows and Mac systems. (CLO 5)

General Education Outcomes:

Please select **up to 2** from the list of the general education outcomes taught in this course.

- Select up to 2 of the following:*
- Communicate effectively in oral and written formats
 - Employ or utilize information access and literacy skills
 - Demonstrate problem-solving and critical thinking skills
 - Employ mathematical and science literacy skills
 - Acquire a cultural, artistic and global perspective
 - Demonstrate professional and human relations skills

Types of Formative Assessment:

Please select **at least 3** formative assessment tools that are most appropriate to the course description and outcomes, regardless of modality. Formative assessment tools are learning activities or assessments that monitor and provide ongoing feedback on student learning. Formative assessments allow students to identify their strengths and weaknesses and for instructors to address student questions and misunderstandings

- Select at least 3 of the following:*
- Practice Quizzes
 - Paper Drafts
 - Class Discussions/Q&A
 - Low-stakes Group Work
 - Homework Assignment
 - Surveys/Polls
 - Laboratory/Instrument Practice
 - Written Reflections
 - Self-appraisal using study guides, quiz software, interactive textbook
 - Other

Types of Summative Assessment:

Please select **at least 2** summative assessment tools that are most appropriate to the course description and outcomes, regardless of modality. Summative assessment tools are learning activities or assessments that evaluate student learning at the end of an instructional period, like a module, unit, or course. Summative assessments are formally graded and allow instructors to determine whether and to what extent students have met the course learning outcomes.

- Select at least 2 of the following:***
- Instructor-Created Exams/High-Stakes Quizzes
 - Standardized Tests
 - Laboratory Reports
 - Final Projects
 - Final Essays/Research Papers
 - Final Presentations
 - Final Reports
 - Internships/ Clinical Site Evaluations
 - Other

Minimum Acceptable Standards* For quizzes, homework, and assessment activities listed, the instructor's analysis of satisfactory demonstration of knowledge will be used; on summative methods such as exams, papers, or projects, achieving a letter grade of "C", or 70% or above will demonstrate satisfactory understanding and basic mastery of outcomes.


Please answer the following questions related to your curriculum proposal:

Why are you recommending these changes? (courses outdated, recommendation of advisory committee, results of assessment activities and data, better attainment of program/course outcomes)

- Justification:***
- Requested by CIT Advisory Committee
 - Partnership with EC-Council leading to a Micro Credential (EC-Council Certified Secure Computer User)
 - Betterment of program by being able to use the current technologies and trends

Last Semester Needed: N/A

Impact Report Statement

List all program(s) or course(s) affected by these changes. If no program(s) or course(s) are affected, please state "NA" below. Run an Impact Report by clicking  in the top left corner and answer below according to the results.

Impact Report: N/A

What impact will these changes have on other courses or programs? (List impacted programs and comments or input you have gathered from other faculty, program directors, or Division Chairs)

Other Courses or Programs: This course will be part of 3 out of 6 programs under CIT (Cybersecurity A.A.S, Cybersecurity 2+2 A.A.S and Cyber Support A.A.S). Our 2+2 Partners agreed to the addition of this course. This will add another certification opportunity for our students. The course comes with hands-on lab activities which help them prepare for real-world scenarios.

What impact will these changes have on institutional resources? (Budget, faculty, equipment, labs, instructional design, etc.) Have you already discussed this impact with appropriate personnel (financial aid, administration, division chair, other faculty)?

Institutional Resources: This will be an OER course with an option for the student to buy certification exam voucher.

What impact will these changes have on current students? How will you ensure that current students are not penalized by these changes?

Current Students: Waivers can be done on a case by case basis.

What impact will these changes have on transferability, national/regional association standards, etc.?

Transferability, National / Regional Association Standards, Etc.: University of Charleston agreed.

What impact will these changes have on the institution's mission and student's achievement of general education outcomes/requirements?

Mission; General Education Outcomes / Requirements: N/A

Administrative Use Only

Please do **not** alter the information within this section.

Course OID:

Information or Voting Item: Information Item (If the proposal does not impact other courses, select this option)
 Voting Item

Implementation Semester and Year*

