Warren County Community College

CSC 120 Data Communications

Course Master Syllabus

Catalog Description: This course covers the fundamentals of data communications: history; current uses; hardware, software, and protocols; networks (LANs, WANs, VANs) and their design; trends; and issues.

Prerequisite(s): None

Corequisite(s): None

Credits: 3

Hours: 2 lecture 2 lab

Required Text(s):

Supplemental Materials:

Instructor Information:

Office Hours:

Program Goals:

1. Demonstrate foundational knowledge of computer systems, including their components, functions, and applications.
2. Apply fundamental technology skills to solve problems and complete tasks in various computing environments.
3. Apply programming principles to solve problems using modern development tools.
4. Analyze and manage data communications and networking systems.
5. Apply critical thinking and data analysis techniques to solve computational problems and make informed decisions.
6. Design and develop interactive web content and apps using modern programming languages and development tools.

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CORE COMPETENCIES: The following core competencies are embedded in this curriculum: Use computer systems or other appropriate forms of technology to achieve educational and personal goals; Understand historical events and movements in World, Western, non-Western or America societies and assess their subsequent significance; Address an information need by locating, evaluation and effectively using information.	
LEARNING ASSESSMENT	
Student Learning Outcomes:	***Suggested Means of Assessment:***
Describe the differences between client and server-machines	Quizzes, Research, Writing and/or Presentation Assignment
Define fundamental data communications concepts and describe how computers are addressed over a networks (business or home)	Quizzes, Research, Writing and/or Presentation Assignment
Identify and provide practical examples of communication networks	Quizzes, Research, Writing and/or Presentation Assignment
Describe the use of LANs, firewalls and proxy servers for business	Quizzes, Research, Writing and/or Presentation Assignment
Use data communication methods to access other computers on a network	Lab Assignments/Projects
Use internet protocols to perform data communications tasks	Lab Assignments/Projects
GRADING SYSTEM:	C+ = 77 < 80
A = 90 < 100	C = 70 < 77
B+ = 87 < 90	D = 60< 70
B = 80 < 87	F = Below 60

Disability Services

https://www.warren.edu/admissions/disability-services/

Statement and Policy on Cheating, Plagiarism, and Academic Conduct

https://www.warren.edu/wp-content/uploads/2025/01/Policy-304-304.3-Student-Rights-Responsibilites-and-Academic-Conduct.pdf

Students are required to perform all the work specified by the instructor and are responsible for the content and integrity of all academic work submitted. A violation of academic integrity will occur if a student: (1) knowingly represents work of others as one's own, (2) uses or obtains unauthorized assistance in any academic work, (3) gives fraudulent assistance to another student, or (4) furnishes false information or other misuse of college documents.

Unauthorized use of Artificial Intelligence (AI) is prohibited unless the instructor explicitly permits it in the syllabus or assignments. If tools such as ChatGPT are permitted by an instructor to be used for an assignment, they should be used with caution and with proper citation. In all such cases, you may only use the specific tools identified as acceptable and you must adhere to the College's standards for attribution, validation, and transparency.

In cases of suspected violation of academic integrity, the incident is to be reported to the Office of Academics. A student found guilty of violating the rule of academic integrity by the Vice President of Academics will be considered to have failed in personal obligation to the College; such failure will be subject to disciplinary action by the College. Unless otherwise notified, the instructor will allow students who are pending disciplinary action to attend class.

Tutoring and Testing at the Instructional Support Center (ISC)

https://www.warren.edu/academics/tutoring-and-testing/

WCCC Library Services

https://warren.libguides.com/library/WCCCStudents

Citation Styles and Formatting

Work submitted for any Warren County Community College course must conform to the required formatting and citation style that are specified by the instructor. The Library and Instructional Support Center can assist students with formatting and citations for assignments and papers.

WCCC Attendance Expectations

The College expects students to attend and participate in all classes. This involves sharing discussions and lectures in class, as well as interacting with other students. Grades are based on the quality of work students complete in meeting the requirements for a particular course, as stated in the course syllabus and catalog description. Attendance, among other factors, may be an additional criterion for assigning grades. Students should realize that they are responsible for all class meetings and that work missed because of absences may affect their grades. Attendance in online classes is determined by the completion of assignments/ tests. Students who have not completed any assignments or tests will be considered non-attending and receive an NF grade in online classes.

Class Attendance Expectations

Topical Outline

- Networking basics

- Fundamentals of communications
- Communication between hardware & software applications
- Communication protocols
- Internet communication and management
- Security measures

Grading Methods

Itinerary