

Fundamentals of Cloud Computing

Class

ITNW 1309

Introduction to cloud computing from a business and technical perspective, including cloud concepts, services, architecture, system integration, connectivity, data center migration, administration, security, compliance and technical support. Coverage includes preparation for industry certifications. Topics may adapt to changes in industry practices.

Required Textbooks

Title: CompTIA Cloud+ Guide to Cloud Computing, 2nd Ed.

Author: Jill West

ISBN-13: 978-0-357-88345-7

Publisher: Cengage Learning

Year: 2023

Evaluation Standards

Final grades will be calculated by the following scale:

A: 90% and above

B: 80 to 89%

C: 70 to 79%

D: 60 to 69%

F: less than 60%

Disabilities

Any student with a documented disability (e.g. learning, psychiatric, vision, hearing, etc.) may contact the Office on the Weatherford College Weatherford Campus to request reasonable accommodations. *Phone:* 817-598-6350
Office Location: Office Number 118 in the Student Services Building, upper floor. *Physical Address:* Weatherford College 225 College Park Drive Weatherford, TX.

Academic Integrity

Academic Integrity is fundamental to the educational mission of Weatherford College, and the College expects its students to maintain high standards of personal and scholarly conduct. Academic dishonesty of any kind will not be tolerated. Academic dishonesty includes, but is not limited to, cheating on an examination or other academic work, plagiarism, collusion, and the abuse of resource materials including unauthorized use of Generative AI. Departments may adopt discipline specific guidelines on Generative AI usage approved by the instructional dean. Any student who is demonstrated to have engaged in any of these activities will be subject to immediate disciplinary action in accordance with institutional procedures.

Program Learning Outcomes

Information Technology AAS – Cyber Security Option

- This degree gives students substantial knowledge of techniques required for network and information security assurance.
- Students work with desktop programs, client-server applications, virtual platforms and cloud services.
- Students will detect and report complex security events, create incident detection and analysis tools through programming techniques and procedures, using appropriate languages and software.

- The primary emphasis of the curriculum is hands-on training in information assurance for network hardware, software and data, including physical security, backup procedures, relevant tools, encryption and incident handling and reporting. Instruction will also include related computer areas that provide the ability to adapt as information systems evolve.
- Students who successfully complete the program should qualify for employment in business, industry, and government organizations in such positions as Network Security Analyst; Information Security Analyst; Penetration Tester; Security Systems Analyst; Cybersecurity Analyst; Cyber Incident Analyst; and Cyber Security - Incident Responder.

SCANS

The Secretary's Commission on Achieving Necessary Skills (SCANS) identified competencies in the area of Resources, Interpersonal, Information, Systems, and Technology; and foundation skills in the areas of Basic Skills and Personal Qualities.

WORKPLACE COMPETENCIES – Effective workers can productively use:

- Resources – They know how to allocate (C1) time
- Information – They can (C5) acquire and evaluate data, (C6) organize, and maintain files, and (C8) use computers to process information.
- Interpersonal Skills – They can work on (C9) teams, and (C14) work well with people from culturally diverse backgrounds.
- Systems – They (C15) understand social, organizational, and technological systems; (C16) they can monitor and correct performance; and (17) they can design or improve systems.
- Technology – They can (C18) select equipment and tools, (C19) apply technology to specific tasks, and (C20) maintain and troubleshoot equipment.

FOUNDATION SKILLS – Competent workers in the high-performance workplace need:

- Basic Skills – (F1) reading, (F2) writing, (F3) arithmetic and (F4) mathematics, and (F5) listening
- Thinking Skills – (F8) to make decisions, (F9) to solve problems, (F10) to visualize, and (F12) to reason.
- Personal Qualities – (F13) individual responsibility, (F14) self-esteem, (F15) sociability, (F16) self-management, and (F17) integrity

Lab Fee

\$24