



Course Prefix/Number/Title: CIS 147 Principles of Information Security

Number of Credits: 3

Course Description: Provides students with an overview of personal and business information security. Topics covered include various method of attack and defense. Students will also investigate desktop security, internet security, wireless network security and enterprise security and ethics.

Pre-/Co-requisites: None

Course Objectives: Knowledge and tools needed to make and maintain computer and related technology equipment (tables, laptops, smartphones, and wireless networks) secure. Upon successful completion of the course, students will have gained knowledge that will assist in their preparation to take the A+ Essentials Exam. Students will take this exam later, while taking CIS 129.

Instructor: Trisha Nelson

Office: MiSU Campus, Model Hall 311

Office Hours: T, Th 11:00-2:00; in-person or virtual meeting available by appointment

Phone: 701-858-3313

Email: [trisha.nelson@dakotacollege.edu](mailto:trisha.nelson@dakotacollege.edu)

Lecture/Lab Schedule: M, W, F 9:00-9:50 a.m.; portions of this course will be online. Students may also attend class virtually.

Textbook(s): Principles of Information Security, Sixth Edition  
Whitman, Mattord ISBN-13: 9781337102063  
Cengage Publisher

Course Requirements: : Instruction procedures include lecture, demonstrations, class discussion and research assignments, quizzes and tests.

Tentative Course Outline:

Introduction to Information Security  
The Need for Security  
Legal, Ethical, and Professional Issues in Information Security  
Planning for Security  
Risk Management  
Security Technology: Access Controls, Firewalls, and VPNs  
Cryptography  
Physical Security  
Implementing Information Security  
Security and Personnel  
Information Security Maintenance

General Education Competency/Learning Outcome(s) OR CTE Competency/Department Learning Outcome(s): Employ industry-specific skills in preparation for workplace readiness.

Relationship to Campus Focus: The course focuses on knowledge and application of technology.

#### Classroom Policies:

- Students are required to complete all class activities.
- Attendance is vital to success. Absences and arrangements must be made with the instructor prior to class time.
- The instructor reserves the right to remove anyone causing disruptions or showing disrespect to others. The instructor will interpret and declare what is considered disruptive or disrespectful behavior.
- Students are to silence or turn cell phones off during class.

#### Student Email Policy:

Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the Campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

#### Academic Integrity:

According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred.

#### Disabilities or Special Needs:

Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services.

#### Title IX:

Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the College as a whole. Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if a student tells a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the College's Title IX Coordinator. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX webpage.