Louisiana Delta Community College
Academic Affairs Master Syllabus

Course Name: **INFORMATION SECURITY FUNDAMENTALS**
Course Number: CINS 130

Lecture hours: 3   Lab Hours: 0   Credit Hours: 3

Textbook, Author, and Publisher: To be provided by College Campus
Instructor Information: To be provided by College Campus
Class Location: To be provided by College Campus

Course Description: Introduces the network security fundamentals that form the basis of the Security+ certification. Information security will be discussed in detail and why it is important will be explored. Introduces fundamental concepts and principles of network security's role, design, threats, policies, and elements of cryptography. Examines protocols, architectures, and technologies for secure systems and services. *This course prepares students for the CompTIA Security+ Exam.*

Prerequisites: CINS 101 or CINS 102 with a grade of "C" or better or instructor's approval.

Co-requisites: None

Learning Outcomes:

On completion of this course, the student will be able to:

1. Describe and identify the fundamental concepts and principles of computer and network security;
2. Identify ethical, professional responsibilities, risks and liabilities in computer and network security;
3. Identify, describe, and assess external and internal threats to an organization;
4. Explain the basics of cryptography;
5. Describe the inner-workings of popular encryption algorithms, digital signatures, certificates, anti-cracking techniques, and copy-right protections;
6. Demonstrate the ability to select among available network security technology and protocols such as IDS, IPS, firewalls, SSL, SSH, IPSec, TLS, VPNs, etc;
7. Identify and explain various access control models;
8. Describe the main types of network security policies;
9. Describe and identify the principles of security design;
10. Describe the inner-workings of today's remote exploitation and penetration techniques.

Learning Outcomes: Continued

On completion of this course, the student will be able to:

11. Identify advanced security issues and technologies, such as DDos attack detection and containment;
12. Experience using popular security tools.

Assessment Measures:

1. Assessment measures may include, but are not limited to essays, presentations, speeches, portfolios, performances, individual and collaborative projects, in-class activities, homework, quizzes, exams, industry-based standards, simulated training activities, and certification exam.

Library Resource Center:

The Delta Library and Learning Resource Center is committed to providing quality information and learning resources and services, including technology, in supporting the overall mission of Louisiana Delta Community College and its commitment to lifelong learning.

Special Accommodations:

Louisiana Delta Community College complies with Section 504 of the Rehabilitation Act, as well as the Americans with Disabilities Act. Students with disabilities who attend the Monroe campus may make a request by contacting the Director of Counseling and Disability Services (See College Directory for contact information.) at the beginning of each semester. Reasonable accommodations will be attempted for students with documented disabilities. If an impairment is identified later in the semester, a non-retroactive accommodation plan will be developed. Students at satellite campuses should contact the Coordinator of Student Affairs at their particular campus.

Title IX:

Louisiana Delta Community College is committed to protecting the rights of students, which includes compliance with Title IX requirements. As such, the institution and members of our community will not tolerate the offenses of dating violence, domestic violence, sexual assault, and stalking. Students with Title IX concerns should contact the College's Title IX Coordinator (See College Directory for contact information.) Students are required to complete Sexual Assault Awareness and Prevention Online Training. Access to this online course will be sent out through the Delta email account.

Student Code of Conduct:

Louisiana Delta Community College encourages an environment of academic integrity and mutual respect. Students should read and follow both academic and behavioral expectations identified in the Code of Student Conduct that can be found online at www.ladelta.edu. Students are expected to act with integrity, respect the rights of others, and conduct themselves in a professional manner. The Honor Code prohibits academic misconduct such as cheating, engaging in unauthorized collaboration, and plagiarism. Violations of the Code of Student Conduct may result in disciplinary action as provided in the Code. Incidents are reported through the online Student Conduct system.