# 4/12/2021

# brcc keystone logo

Baton Rouge Community College

*Academic Affairs Master Syllabus*

Date Approved: 27 April 2021

Term and Year of Implementation: Fall 2021

**Course Title:** Introduction to Cybersecurity

**BRCC Course Rubric:** CSCI 2123

**Previous Course Rubric**:

**Lecture Hours per week-Lab Hours per week-Credit Hours**: 3-0-3

**Per semester: Lecture Hours-Lab Hours-Instructional Contact Hours**: 45-0-45

**Louisiana Common Course Number:**

**CIP Code:** 11.1003

**Course Description:** Provides an introductionto to cybersecurity terminology, principles, and technologies.

**Prerequisites:**  None

**Co-requisites:** None

**Suggested Enrollment Cap:** 30

**Learning Outcomes.** *Upon successful completion of this course, the students will be able to:*

1. Describe what cybersecurity means and why it is important.

2. Describe basic network security.

3. Describe malware and cyber attacks.

4. Describe the importance of security training.

**Assessment Measures.** Assessment of all learning outcomes will be measured using the following methods:

1. Instructor-prepared quizzes, tests, and final exam

2. Instructor prepared assignments including, but not limited to, written and oral assignments, projects, homework, discussions, problem-solving, presentations, and group/individual projects.

**Information to be included on the Instructor’s Course Syllabi:**

* ***Disability Statement*:** Baton Rouge Community College seeks to meet the needs of its students in many ways. See the Office of Disability Services to receive suggestions for disability statements that should be included in each syllabus.
* ***Grading:*** The College grading policy should be included in the course syllabus. Any special practices should also go here. This should include the instructor’s and/or the department’s policy for make-up work. For example in a speech course, “Speeches not given on due date will receive no grade higher than a sixty” or “Make-up work will not be accepted after the last day of class”.
* ***Attendance Policy*:** Include the overall attendance policy of the college. Instructors may want to add additional information in individual syllabi to meet the needs of their courses.
* ***General Policies*:** Instructors’ policy on the use of things such as beepers and cell phones and/or hand held programmable calculators should be covered in this section.
* ***Cheating and Plagiarism*:** This must be included in all syllabi and should include the penalties for incidents in a given class. Students should have a clear idea of what constitutes cheating in a given course.
* ***Safety Concerns:*** In some courses, this may be a major issue. For example, “No student will be allowed in the lab without safety glasses”. General statements such as, “Items that may be harmful to one’s self or others should not be brought to class”.
* ***Library/ Learning Resources:*** Since the development of the total person is part of our mission, assignments in the library and/or the Learning Resources Center should be included to assist students in enhancing skills and in using resources. Students should be encouraged to use the library for reading enjoyment as part of lifelong learning.

**Expanded Course Outline:**

I. Introduction

II. Cybersecurity Fundamentals

III. Types of Malware

a. Worms

b. Viruses

c. Spyware

d. Trojans

IV. Cybersecurity Breaches

a. Phishing

b. Identity Theft

c. Harassment

d. Cyberstalking

V. Types of Cyber Attacks

a. Password Attacks

b. Denial of Service Attacks

c. Passive Attack

d. Penetration Testing

VI. Prevention

VII. Mobile Protection

VIII. Social Network Security

IX. Prevention Software

a. Firewalls

b. Virtual Private Networks

c. Anti-Virus & Anti-Spyware

d. Routines

X. Critical Cyber Threats

a. Critical Cyber Threats

b. Cyber Terrorism

c. Cyberwarfare

d. Cyberespionage

XI. Defense Against Hackers

a. Crypography

b. Digital Forensics

c. Intrusion Detection

d. Legal Recourse