

## NORFOLK STATE UNIVERSITY

**SEMESTER AND YEAR:** Fall 2018

**COURSE NUMBER, TITLE, CREDIT HOURS:** SOC-401, Socio-Cybersecurity, 3 Credit Hours

**CLASS MEETINGS:** MWF 1 – 2pm.

### **INSTRUCTOR NAME, TITLE, DEPARTMENT, AND OFFICE HOURS**

Dr. Carlene Turner, Associate Professor, Sociology Department

Office Hours: WF 11am - 12:30pm AND Mon 2-5pm

### **INSTRUCTOR CONTACT INFORMATION**

Brown Memorial Hall 203-05, (757) 823-9078, [cmtturner@nsu.edu](mailto:cmtturner@nsu.edu)

### **COURSE DESCRIPTION, PREREQUISITES, CO-REQUISITES**

This course examines the socio-culture aspects of cybersecurity and its accompanying social problems. Cybersecurity is as situated in social deviance theory framework in order to explain the role of policing and the judicial system. Cybersecurity position in pivotal social institutions will also be examined. Students will also apply sociological research to cybersecurity and for managerial best-practices for handling big data.

**PREREQUISITE:** Instructor's approval.

### **COURSE RATIONALE**

The goal of this course is to teach cybersecurity to non-computer science undergraduate students. This should increase the cybersecurity awareness of the students.

### **LEARNING OUTCOMES**

By the end of the course, students will be able to:

- Identify the fundamental concepts of socio-cybersecurity.
- Identify the norms of the cybersecurity sub-culture
- Apply deviance typologies to cybersecurity breeches
- Explain the role of cybersecurity in modern bureaucracies
- Apply social research and data analytical methods to cybersecurity operations
- Describe the future of socio-cybersecurity based on contemporary parameters.

### **TEXTBOOK**

- Kremling, Janine and Sharp Parker, Amanda M. 2018. *Cyberspace, Cybersecurity and Cybercrime*. SAGE Publication, Los Angeles.

### **•Selected Readings**

- Supplemental Reading and Lab Assignments will be provided.

### **PRIMARY METHODS OF INSTRUCTION**

Methods include lecture, demonstrations, labs, and projects.

### **RELATED UNIVERSITY-WIDE AND COURSE-SPECIFIC REQUIREMENTS**

This course emphasizes critical thinking and problem-solving.

### **EVALUATION / ASSESSMENT METHODS**

- Mid Semester Exam ..... 20%
- 4 Quizzes..... 10%
- 3 Labs ..... 15%
- Group Presentations..... 10%
- Final Project..... 25%
- Attendance ..... 5%

*\* The instructor reserves the right to revise the grading criteria as appropriate and will make reasonable attempts to notify students.*

		<b>COURSE OUTLINE / CALENDAR</b>		
<b>Module # &amp; Presentation/Final Project Topics</b>		<b>M</b>	<b>W</b>	<b>F</b>
<b>Module 1</b>	<b>Introduction to Socio-Cybersecurity</b>			
Aug 20-24 Introduction to Socio-Cybersecurity	Chapter 1 • Cyberspace, the Internet, and the World Wide Web			
Aug 27-31 Cybersecurity as a Social Good	Chapter 2 • What Is Cybersecurity?			<b>Quiz 1</b>
<b>Module 2</b>	<b>Cybersecurity Culture</b>			
Sept 3-7 Hacking Sub-Culture – A Social Psychological Perspective	Chapter 5 • Threats to Cybersecurity by Hacktivists and Nation-States	<b>LABOR DAY SEPT. 3</b>		<b>LAB 1 Phishing</b>
<b>Module 3</b>	<b>Cybersecurity and Deviance</b>			
Sept 10-14 Cyber Ethics and Theories of Deviance	Chapter 9 • Cybersecurity Operations			
Sept 17-21 Policing and Cybersecurity	Chapter 3 • Threat Factors—Computers as Targets			<b>Quiz 2</b>
Sept 24-28 The Courts and Cybersecurity	Chapter 4 • Threats to Cybersecurity by Criminals and Organized Crime			Mid-Semester Review
<b>Module 4</b>		<b>Cybersecurity Within Social Institutions</b>		
Oct 1-5		<b>Mid-Semester Exam</b>	<b>Mid-Semester Exam</b>	<b>Mid-Semester Exam</b>
Oct 8-12 Cybersecurity as Bureaucracy (Organizational Sociology)	Chapter 10 • Cybersecurity Policies and Legal Issues	<b>SEMESTER BREAK</b>		<b>LAB2 Forensics</b>
Oct 15-19 Cybersecurity as Bureaucracy (Organizational Sociology)	Chapter 10 • Cybersecurity Policies and Legal Issues			<b>Quiz 3</b>
Oct 22-26 Cybersecurity and National Security	Chapter 6 • National Security: Cyberwarfare and Cyberespionage			
Oct 29-Nov 23	Chapter 6 • National Security: Cyberwarfare and Cyberespionage			

<b>Module 5</b>		<b>Applied Sociology &amp; Data Integrity</b>		
Nov 5-9 Cybersecurity in Social Science Research	Chapter 11 • What the Future Holds			<b>Quiz 4</b>
Nov 12-16 Cybersecurity and Data Analysis: The Case of Big Data	Chapter 11 • What the Future Holds			<b>LAB 3 Passwords:</b>
Nov 19-23		Review	Thanksgiving Break	Thanksgiving Break
		<b>Way Forward</b>		
November 26- Future of Socio Cybersecurity		Thanksgiving Break	Review	
<b>END OF COURSE</b>				

The instructor reserves the right to adjust the schedule to accommodate an optimal learning experience.

#### EXPLANATION OF EVALUATIONS / ASSESSMENTS

- Mid Semester Exam – The format for the mid-terms will be multiple-choice and short answers. The multiple choice questions will be completed during a regular class session on October 3 & 5, 2018; and the short answers will be submitted online.
- 4 Quizzes – Short multiple-choice quizzes.
- 3 Labs – Hands-on, experiential laboratory exercises to reinforce cybersecurity concepts.
- Group Presentation - As of September 14, 2018 – a different group will make a 15 minutes presentation (An analysis of a cybersecurity issue through sociological lenses). This is practice for the term paper – hence the structure should be similar. However, the cybersecurity phenomenon reviewed must be different from the one selected for the Final Project. You may make your selection from one of the topics above. For the Presentation prepare a 3-4 slide (per student) power-point presentation with concise bullets.
- Final Report – Each student will complete a 5 page report on a cybersecurity phenomenon using a sociological lenses. The report should be structured as an organization report. (1) Present a real-life cybersecurity issue; (2) Apply a sociological theory; (3) Recommend a Solution; (4) Report should include at least one social science article & a cybersecurity article.
- Attendance ..... 5%

#### GRADING STANDARDS / EVALUATION CRITERIA

The grading scale

- A = 94% - 100%
- A- = 90% - 93%
- B+ = 87% - 89%
- B = 86% - 84%
- B- = 83% - 80%
- F = 60% below
- C+ = 77% - 79%
- C = 76% - 74%
- C- = 76% - 70%
- D+ = 69% - 67%
- D = 66% - 60%

*\* The instructor reserves the right to revise the grading criteria as appropriate and will make reasonable attempts to notify students.*

All lab assignments, projects, reports, and presentations must be completed by the deadlines. Late submissions will be assessed penalty or forfeiture.

## **ACADEMIC INTEGRITY STANDARDS**

The Sociology Department adheres to the University Policy on class attendance and University Standards on Honesty and Honor Code. In addition, students are required to follow classroom rules. Turn off cell phones, iPods, and other electronic devices. No side conversations, instant messaging, emailing, unauthorized web surfing, or other disruptive behaviors.

*E-Mail Policy: Students must check their NSU-email accounts often and regularly for announcements and correspondence for this course.*

## **AMERICANS WITH DISABILITIES ACT (ADA) STATEMENT**

In accordance with Section 504 of the 1973 Rehabilitation Act and the Americans with Disabilities Act (ADA) of 1990, we ask if you have a disability or think you have a disability, please contact the:

**Office of Accessibility Services/International Student Services (O.A.S.I.S.).**

### **Contact Information:**

Coordinator, Accessibility Services (O.A.S.I.S.)

Location: James Bowser Building, Suite 121

Telephone: 757-823-2014

Fax: 757-823-2640

## **UNIVERSITY ASSESSMENT STATEMENT**

As part of NSU's commitment to provide the environment and resources needed for success, students may be required to participate in a number of university-wide assessment activities. The activities may include tests, surveys, focus groups and interviews, and portfolio reviews. The primary purpose of the assessment activities is to determine the extent to which the university's programs and services maintain a high level of quality and meet the needs of students. Students will not be identified in the analysis of results. Unless indicated otherwise by the instructor, results from University assessment activities will not be computed in student grades.

## **RETENTION ALERT ADVISORY**

The Retention Alert policy provides a framework for establishing a campus network of responders including both academic and student affairs agents to increase a safety net so students are less likely to leave the University before graduating. Based on your classroom performance you may be referred to the appropriate responder through Retention Alert.

## **Instruction during Inclement Weather and/or University Closing**

To ensure that all classes meet the required number of instructional contact hours, the method of offering continuous instruction in the event of class cancellation or University closure due to inclement weather is to provide course content, assignments and activities *via* Blackboard as the course management system and the virtual classroom.