

Course Information

Course Title	Mobile Networking and Security
Course Prefix, Num. and Title	ITSY 1171 - Mobile Networking and Security
Division	Technology & Business
Department	Computer Science
Course Type	This course is a Special Topics or Unique Needs Course.
Course Catalog Description	Topics address recently identified current events, skills, knowledges, and/or attitudes and behaviors pertinent to the information security technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.
Pre-Requisites	None
Co-Requisites	None

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours:	1:1:0
Lab/Other Hours	
Equated Pay Hours	1
Lab/Other Hours Breakdown: Lab Hours	0
Lab/Other Hours Breakdown: Clinical Hours	Enter Clinical Hours Here.
Lab/Other Hours Breakdown: Practicum Hours	Enter Practicum Hours Here.
Other Hours Breakdown	List Total Lab/Other Hours Here.

Approval Signatures

Title	Signature	Date
Prepared by:		
Department Head:		
Division Chair:		
Dean/VPI:		
Approved by CIR:		

Additional Course Information

Topical Outline: Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, and clinical or other non-lecture instruction).

What is Cyber Safety?

- Privacy
- Encryption
- Monitoring Online Activity
- Identifying devices you use and where you use them
- Physical Security

Connecting to the Internet

- Security your Web Browser
- Wi-fi Security and Safety
- Passwords
- Firewalls

Malware and Viruses

- Antivirus
- Staying Up to date
- Disaster Recovery

Email safety and security

Cybercrime

- Identity Theft
- Social Engineering
- Hacking
- Scams

Protecting yourself on Social media

- Securing social media

Finding a job online

- Online resumes
- work-at-home scams
- Securing LinkedIn

Protecting your reputation

- Maintaining Privacy
- What you post
- What to do after a Security Breach

Dealing with people

- Netiquette
- Annoying and Abusive People
- Online chat
- Protecting yourself

Protecting your kids

- Parental Controls
- Cyberbullying
- Online Predators

Course Learning Outcomes:

Learning Outcomes – Upon successful completion of this course, students will:

1. Identify basics of cyber safety

Methods of Assessment:

All outcomes will be accessed by one or more of the following:

- * Individual Projects
- * Group Projects
- * Lab Assignments
- * Tests and Quizzes
- * Final Exam

Required text(s), optional text(s) and/or materials to be supplied by the student:

The Basics of Cyber Safety: Computer and Mobile Device Safety Made Easy, 1st Edition, Sammons, John and Michael Cross, Syngress an imprint of Elsevier, 2017, 9780124166509. Or similar title

Suggested Course Maximum:

18

List any specific or physical requirements beyond a typical classroom required to teach the course.

Computer (64 bit CPU) equipped with 12 GB RAM or more (running virtual machines), graphics card capable of supporting virtual machines, 19” or better monitor, and removable hard drive (500 GB or better) for each student and same for instructor.

- Instructor’s machine needs 2 network interface cards (one to connect to WCJC network and one to connect to student pcs). And Data projector
- Cat 5 network cable, RJ-45 jacks and crimper for each student and 2 cable tester
- Router and cables to separate class from WCJC network
- Microsoft Windows 7 (or current version) (64 bit) operating system software for each pc (student and instructors)
- Linux Operating system*
- Microsoft Office suite for each pc (student and instructors)
- VMWare Workstation 11 (or current version) for each student and instructor
- Antivirus software for each pc

The course maximum is set by current equipment contained in the lab.

Course Requirements/Grading System: Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course.

Attendance and Participation	0-10%
Chapter Review Questions	0-10%
Labs (Projects)	25-50%
Tests	25-50%
Final Exam / Project	10-25%

- A = 90.0 - 100
- B = 80.0 - 89.9
- C = 70.0 - 79.9
- D = 60.0 - 69.9
- F = less than 60.0

Curriculum Checklist:

- Administrative General Education Course** (from ACGM, but not in WCJC Core) – No additional documents needed.
- Administrative WCJC Core Course.** Attach the Core Curriculum Review Forms
 - Critical Thinking
 - Communication
 - Empirical & Quantitative Skills
 - Teamwork
 - Social Responsibility
 - Personal Responsibility
- WECM Course** -If needed, revise the Program SCANS Matrix and Competencies Checklist