CS 49995  SPECIAL TOPICS IN COMPUTER SCIENCE  1 – 4 credit hours

Instructor’s Name:  Mike Kiec

(Textbook Title, Author, Year)
While there is no textbook required, reading assignments will be given through the duration of the course.

(Other Supplemental Material)
If you are so inclined, a good reference book for this material is: Certified Information Systems Security Professional Official Study Guide. It is produced by International Information System Security Certification Consortium, also known as (ISC)², who also is responsible for the exam.

Course Content:
(Repeattable for credit) (Cross-listed with CS 59995) Special topics from all areas of computer science.
Prerequisites or co-requisites:  special approval.
Required, elective, or selected elective

Goals:

Outcomes:
Cybersecurity is the study of security principles and techniques used to protect computer systems from unauthorized use and malicious attacks. This is a broad-based look at the field from a hardware, software and social engineering perspective and is intended to deliver content from the hacker’s perspective in order to gain a fuller understanding of the field. Students will learn fundamental concepts and will also do labs as part of the course.

Topics to be Covered:
Cybersecurity students completing this course will:
Become familiar with how some basic hacking techniques are used.
Understand how social engineering can be used against a secure system.
Understand the basic underlying principles of cybersecurity (CIA and DAD triads).
Understand the steps of a targeted cyber attack.

Grading:
As this is a combined grad and undergrad class, there are two different grading criteria outlined below.

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