Format for Requesting New Course Proposals

Part I   New course proposal for COSC 316 Cybersecurity Basics

NEW Syllabus of Record

COSC 316 Cybersecurity Basics

0 lab hours
3 lectures hours
3 credits
3c-0l-3sh

I. Course Description

COSC 316   Cybersecurity Basics   3c-0l-3sh

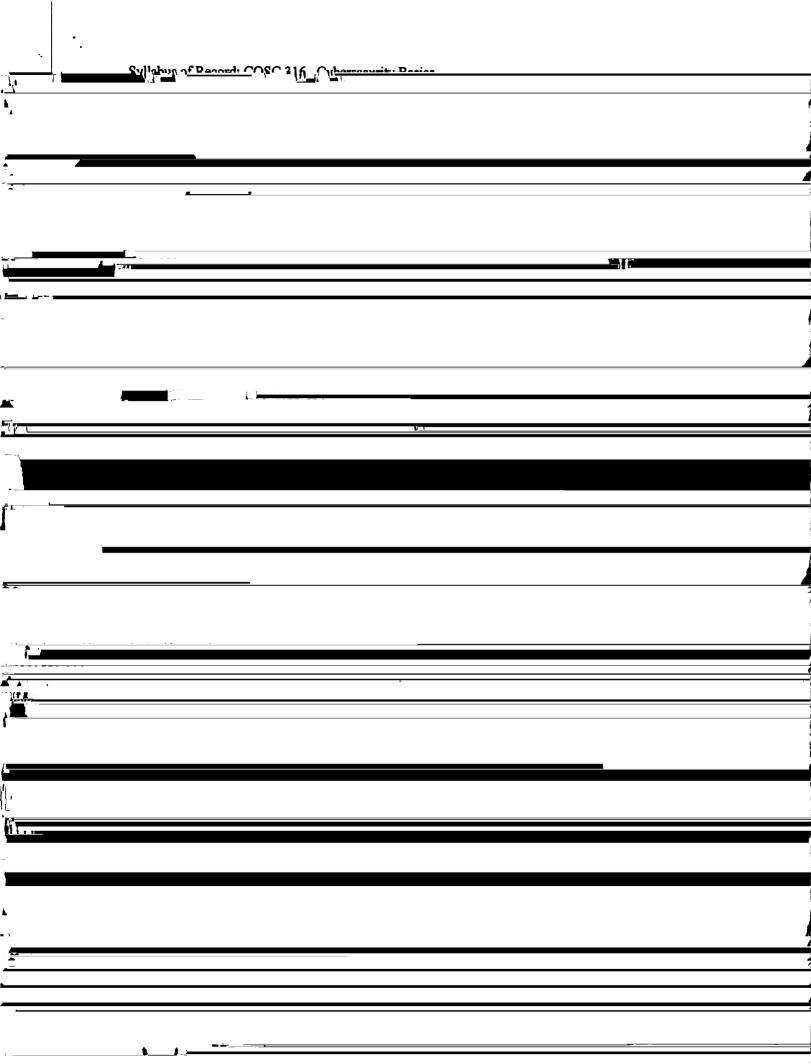Prerequisites: COSC 110 or equivalent programming course, junior standing or permission of

instructor.

Provides an introduction to the theory and concepts of computer security in networked systems. The course will look at security issues and policies with regard to hardware, software development, databases, operating systems and networks as well as the use of encryption. The more common attacks on systems will be covered. Vulnerability assessment tools and techniques for defending systems will be explored in various projects.

II. Course Objectives

Upon successful completion of this course, the students will:
1. model the security risks in a network

Syllabus of Record: COSC 316. Cybersecurity Basics

2. Denning, Dorothy E. (1999), Information Warfare and Security. Addison-Wesley, ISBN 0-2014-3303-6

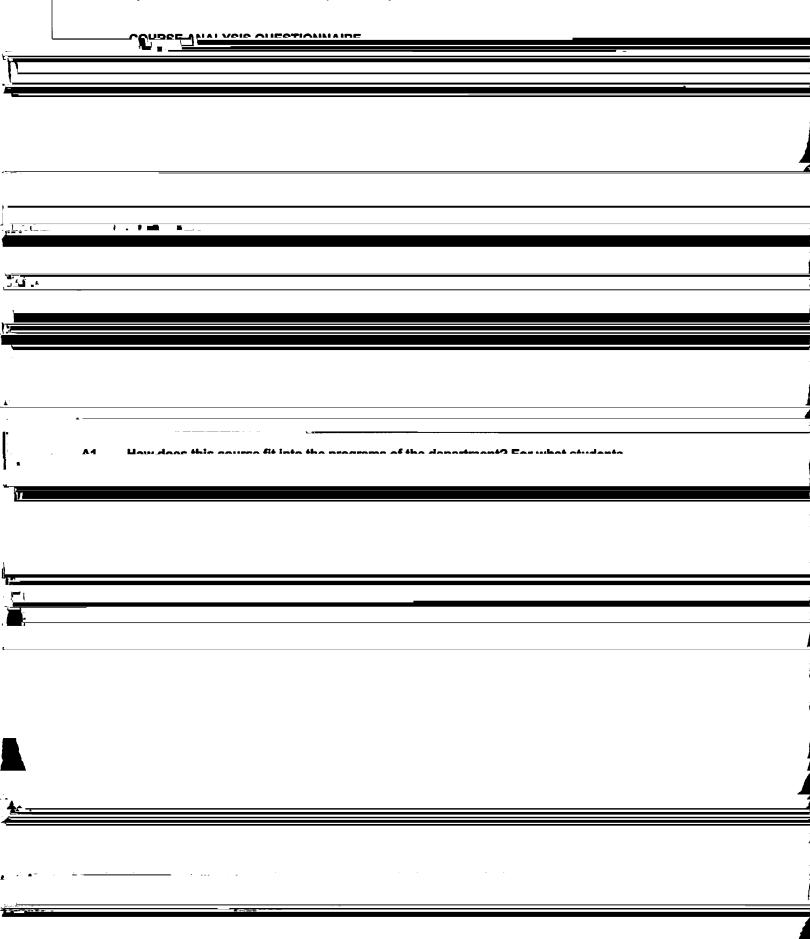3. Krause, Micki, Harold F. Tipton, Editors (2000) Handbook of Information Security

Management. Auerbach, ISBN 0-8493-9829-0

4. Krist, Martin A. (1999), Standard for Auditing Computer Applications, Auerbach, ISBN 0-8493-9983-1

5. McClure, Stuart, Joel Scambray, and George Kurtz (1999), Hacking Exposed: Network Security Secrets and Solutions, Osborne/McGraw Hill, ISBN 0-07-212127-0

6. Nichols, Randall K.,Daniel J. Ryan, and Julie J.C.H. Ryan,(2000), Defending Your Digital Assets Against Hackers, Crackers, Spies, and Thieves, McGraw Hill, ISBN 0-07-212285-4

COURSE ANALYSIS QUESTIONNAIRE

A1   How does this course fit into the programs of the department? For what students

Syllabus of Record: COSC 316. Cybersecurity Basics

NEW Syllabus of Record

Section B: Interdisciplinary Implications

B1. Will this course be taught by one instructor or will there be team-teaching? If the latter, explain the teaching plan and its rationale.

This course will be taught by one instructor.

B2. What is the relationship between the content of this course and the content of courses offered by other departments? Summarize your discussions (with other departments) concerning the proposed changes and indicate how any conflicts

which clarify their attitudes toward the proposed change(s).

N/A

B3. Will seats in this course be made available to students in the School of Continuing

C4. **How frequently do you expect this course to be offered? Is this course particularly**