BURLINGTON COUNTY COLLEGE
COURSE INFORMATION FORM

This form must be completed for all new and modified courses offered for credit, including experimental courses.

I. Course Prefix and number: e.g. ART101: CIS 200

II. Course Title: Fundamental of Network Security.

III. Lecture Hrs.4 Clinical Hrs. Credit Hrs. 4
Studio Hrs. Lab Hrs. Recitation Hrs.

IV. Course Fee:

V. Prerequisite(s): CIS 165 or permission

VI. Co-Requisite(s):

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VII. Division Dean Approval: ☐ Yes ☐ No Date:

VIII. IAC Approval: ☐ Yes ☐ No Date:

IX. VP Approval: ☐ Yes ☐ No Date:

X. New Course: ☐ Modified Course: ☒ Experimental Course: ☐
(if modified course explain changes and list old course designator and number)

XI. Semester and Year Course will first be Offered (or, if a modified course, semester and year when revised course will first be offered): Fall 2012

XII. Relation of Course to Curriculum(s):
- ☒ Core requirement
- ☐ General Education requirement
- ☐ Elective

XIII. General Education Designator (if course is intended to satisfy a general education requirement check appropriate designator):
- ☐ **CM** = Communications
- ☐ **HA** = Humanities
- ☐ **SS** = Social Sciences
- ☐ **MLS** = Mathematics and Laboratory Science
- ☐ **HW** = Health and Wellness
- ☐ **TL** = Technological Literacy
- ☐ **DGP** = Diversity/Global Perspective

XIV. Catalogue Description: This course introduces network security focusing on the overall processes with an emphasis on hands-on skills in the following areas: security policy design and management; security technologies, products and solutions; firewall and secure router design, installation, configuration, and maintenance; AAA implementation and VPN implementation using routers.

XV. Course Objectives (Learning Outcomes):

1. Explain the basic principles of computer and network security
2. Security policy design and management
3. Understand various authentication methods
4. Secure network protocols
5. Understand malicious code: viruses, worms, trojan horses, etc
6. Analyze attacks and implement defenses on computer/network systems
7. Implement and configure firewalls
8. Implement Intrusion detection and other countermeasures
9. Understand and analyze societal issues in computer security, including legal, ethical, governmental

XVI. Textbook(s): Principles of Computer Security, CompTIA Security+ and Beyond, Third Edition, Wm. Arthur Conklin, Gregory B. White, Dwayne Williams, Roger L. Davis, Chuck Cothren, Corey Schou, Softcover with CDROM, ©2012, ISBN-13 9780071786195

XVII. Other Course Materials to be supplied by Student:

XVIII. Grading Policy (Number and Weight of Papers, Quizzes, Examinations, etc.)

Course Grade	% Total
4 Lab Projects	40 %
Mid Term Exam	15%
Final Exam	40%
Class Participation	5%
Total	100%

XIX. Detailed Description of Project Final Examination (if applicable):

XX. Schedule of topics to be covered in Course:

Week	Date	Topic
W1	08/29/12	Operational & Org. Security
W2	09/10/12	Security policy & Procedures
W3	09/17/12	Standards & Protocols
W4	09/24/12	Physical Security
W5	10/01/12	Infrastructure Security
W6	10/08/12	Authentication & Remote Access
W7	10/15/12	Wireless Security
W8	10/22/12	IDS & Network Security
W9	10/29/12	Types of Attacks & Malicious Software
W10	11/05/12	Disaster Recovery, Business Continuity & Organizational Policies
W11	11/12/12	Risk & Change Management
W12	11/19/12	Legal Issues & Ethics
W13	11/26/12	Privacy
W14	12/03/12	Review
W15	12/11/12	FINAL EXAM

IAC Chair