

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 165

II. Course Title: Network & Systems Administration

III. Lecture Hrs. 4 Clinical Hrs. 0 Credit Hrs. 0
 Studio Hrs. 0 Lab Hrs. 0 Recitation Hrs. 0

IV. Course Fee:

Contact: Berna Dike-Anyiam
609-894-9311 X 2033
bdikeany@bcc.edu

V. Prerequisite(s): CIS 150 or Permission

VI. Co-Requisite(s):

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):

- | | |
|---|---|
| <input type="checkbox"/> CM = Communications | <input type="checkbox"/> HW = Health and Wellness |
| <input type="checkbox"/> HA = Humanities | <input type="checkbox"/> TL = Technological Literacy |
| <input type="checkbox"/> SS = Social Sciences | <input type="checkbox"/> DGP = Diversity/Global Perspective |
| <input type="checkbox"/> MLS = Mathematics and Laboratory Science | |

XIV. Catalogue Description: This course provides an advanced knowledge of networking as well as related equipment and terminologies. The course will cover Local area network, wide area network, managing enterprise level networks using Active Directory and remote access. Advanced network management and environment customization techniques will be explored, including creating users/groups, managing file permissions, configuring server roles, using group policies to configure and secure the network, routine system maintenance and troubleshooting.

XV. Course Objectives (Learning Outcomes): Upon completion of the course, students will be able to:

1. Install, configure and manage enterprise systems/networks, including hardware/software.
2. Implement and administer desktop and server operating systems (client/server), switching and routing devices.
3. Implement and configure active directory
4. Create user/group accounts and configure server roles.
5. Administer permissions for users, files and network resources.
6. Use group policies to configure and secure the network.
7. Manage desktops and server computers using remote access.
8. Understand network connectivity and internetworking protocols and standards.

9. Install and configure TCP/IP for network and Internet connectivity.

10. Maintain and troubleshoot enterprise networks.

XVI. Textbook(s): Computer Networking from LANs to WANs: Hardware, Software and Security, 1st Edition, Kenneth C. Mansfield, Jr. , James L. Antonakos

ISBN-10: 1423903161 ISBN-13: 9781423903161 , ©2010 Published

XVII. Other Course Materials to be supplied by Student:

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

Course Grade	% Total
6 Lab Projects	45 %
Mid Term Exam	15%
Final Exam	35%
Class Participation	5%
Total	100%

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

XX. Schedule of topics to be covered in Course:

Wk1	08/29/12	Network Hardware
Wk2	09/10/12	Network Topologies & Technologies
Wk3	09/17/12	Network Protocols
Wk4	09/24/12	Switching & Routing
Wk5	10/01/12	FTP & Telnet
Wk6	10/08/12	The Internet
Wk7	10/15/12	Networking with Windows
Wk8	10/22/12	Windows Domains
Wk9	10/29/12	Server Management & Administration
Wk10	11/05/12	Supporting Small Business Network
Wk11	11/12/12	WAN Essentials
Wk12	11/19/12	Multimedia Networking
Wk13	11/26/12	Network Support, Mgt & Security
Wk14	12/03/12	Review
Wk15	12/11/12	Final Exam

IAC Chair Jeffery Bay 4/5/12