Roxbury Community College
Curriculum Committee

Submitted by

___________CHISO OKAFOR___________

Department/Division

__INFORMATION SYSTEM TECHNOLOGY/STEM__

For Program changes only:

Name of Program

_____NETWORK ADMINISTRATION_____
Roxbury Community College
Curriculum Committee

Submitted by
Chiso Okafor

Department/Division
Information Systems Technology/ STEM Division

Name of Courses
IST 117 IT Essentials – PC Hardware & Software
IST 142 Network Fundamentals
IST 143 Routing and Protocols
IST 144 LAN Switching and Wireless
IST 242 Accessing the WAN
IST 245 MS Windows Server Administration

For New Course only:
Proposed Course Number ____________ Registrar Verification

Curriculum Committee Form
Revised – F2011
PROGRAM

Change in:

_______ Program title

___X___ Program description

___X___ Program course requirements

___X___ Program credit hours

___ Other ________________________________
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<th>DEPARTMENT CHAIR PRINT NAME</th>
<th>SIGNATURE</th>
<th>RECOMMEND</th>
<th>NOT RECOMMEND</th>
<th>NO OPINION</th>
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**Division Dean**

Date Received: 3/14/13  
Recommended:  
Not recommended:  
No opinion:  

Dean Tala Khudairi  
Name  
Division Dean Signature  
3/15/13  
Date  

Comments:  

Curriculum Committee Form  
Revised – F2011
Curriculum Committee

Date Received  2/13
Recommended
Not recommended

Michelle Howard-Harrell
Curriculum Committee Chair

Signature

3/5/13
Date

Comments:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Vice President for Academic Affairs

Date Received
Recommended
Not recommended

Dr. Brenda Mercomes
VP Academic Affairs

Signature

3/15/13
Date

Comments:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
New Course Only

Acuerdo

Recommended [✓]  
Not recommended [ ]  

Name  
Javad Moulai

Signature of Representative  
[Signature]

Date  
3/15/2013

Comments:

[Multiple lines of text]

President

Approved [✓]  
Disapproved [ ]  

Name  
Linda E. Turner (FrenchMercome)

President's Signature  
[Signature]

Date  
3/15/13

Comments:

[Multiple lines of text]
Network Administration
Program Changes

1 Program Name
Network Administration

2 Catalog Description
The Information Systems Technology Department offers an Associate in Science degree in "Network Administration, one of the fastest growing, most exciting career opportunities" available today. The trend in data management towards the use of desktop computers connected in networks, a type of networking that has, in many instances, replaced centralized processing on mini and mainframe computers will continue to increase as more applications are now being migrated into network servers, which has been aided by the development of hardware and software that make it possible to share resources among users. This trend has created a demand for trained network administrators and technicians to manage and maintain the networking process. This program prepares students to demonstrate their proficiency by taking certain certification exams, which provide real opportunities in network administration and other computer careers. For more information contact the Information Systems Technology Department, Room 455, Academic Building.

3 Program Outcomes

- Demonstrate knowledge and skills that meet industry standards and CCNA and CCENT certification requirements in the use of routers and network administration technology

- Demonstrate knowledge and skills that meet industry standards and CompTIA A+ certification requirements in the use of computer hardware and operating systems technology

- Use a computer programming language to solve problems in a workplace setting and implement appropriate solutions

- Work effectively as part of an information technology team and provide appropriate solutions

- Show proficiency of the fundamentals of network security, including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography.

- Show proficiency in network security as well, including psychological approaches to social engineering attacks, Web application attacks, penetration testing, data loss prevention, cloud computing security, and application programs development security.

- Show proficiency in the development and administration of database systems or web sites to support workplace needs

- Demonstrate academic skills required of all Certificate students, including competency in writing, information literacy, oral communication, quantitative reasoning

- Identify their career and transfer options and assume a professional role in the workplace

- An ability to communicate effectively—both orally and in writing

- Use written, oral and interpersonal skills to communicate with individuals or small groups

- Develop critical thinking and analytical problem solving skills

IST Department Rev. 3/16/13