Description of the Program

The information & computer technology curriculum prepares students for a career in electronics, computer networking, information technology, and technical management. Coursework provides a sound base of information technology fundamentals and advanced work in internetworking and client-server information systems. Under the Microsoft Academic Alliance and the Red Hat Academy, all students gain in-depth experience in configuring and maintaining operating systems and server applications. Under the Cisco Networking Academy, students gain an in-depth understanding of inter-network technology and experience hands-on practice with Cisco routers and switches. During the program, all students are required to sit for CCNA certification.

For specialization, students choose between three concentrations, Computer Networking, Information Security, and Information Technology. Students who choose the Computer Networking concentration are prepared for the CCNP certification. Students that choose the Information Security concentration learn in-depth procedures to ensure the secure storage and transmission of information. Students that choose the Information Technology concentration take a wider, but less in-depth, base of courses relating to the Information Technology industry.

In addition to the ICT technical courses, the curriculum provides a solid management background. Students take courses in finance, supervision, finance law, technical writing, public speaking, industrial psychology and more. This foundation will provide the needed skills to advance in a technology based career.

This program is for you if you want to:

- Set up and configure computers and systems that allow computers to communicate both locally and over long distances.
- Learn the fundamentals of information technology and technical management. Students develop the background to rise to management positions.
- Pursue a technical career that builds on college algebra and statistics. Students are not required to take calculus.
- Begin a computer systems career that does not require multiple courses on computer theory and languages.
- Learn how to use routers, switches, and computers to set up, configure and use information networks.

For more information on the ICT program, please visit our website at www.tecs.ecu.edu/tsys. For more information about ECU admission, tuition, financial aid, housing, and campus tours, please visit ECU’s website at www.ecu.edu.

Required Coursework

Information & Computer Technology Core (48 hrs):
- ICTN 1500 PC Hardware with Lab
- ITEC 2000 Ind. Tech. Applications of Computer Systems
- ICTN 2150 Network Fundamentals (CCNA) with Lab
- ICTN 2154 Digital Communication Systems (CCNA) with Lab
- ICTN 2158 Computer Network Technology (CCNA) with Lab
- ICTN 2510 Network Environment I (MCP) with Lab
- ICNT 2530 Network Environment II (RHCSA) with Lab
- ICTN 2732 Scripting for Information Technology
- ICTN 2900 Fundamental Network Security with Lab
- ITEC 3290 Technical Writing
- ITEC 3300 Technology Project Management
- ICTN 3540 Network Environ III (RHCE) with Lab
- IDIS 3790 Technical Presentations
- ICTN 4000 Network Internship
- ICTN 4020 & 4022 Senior Capstone Design Project I & II
- ICTN 4040 Enterprise Information Security

Concentrations Areas – choose one (12 hrs):

Computer Networking Concentration:
- ICTN 3250 Inter-network Routing Tech (CCNP) with Lab
- ICTN 4150 Switching Network Tech (CCNP) with Lab
- ICTN 4250 Enterprise Netw. Security (CCNA Security) with Lab
- ICTN 4590 Network Maint. & Troubleshooting (CCNP) with Lab

Information Security Concentration:
- ICTN 4064 Regulations and Policies
- ICTN 4200 Intrusion Detection Technologies with Lab
- ICTN 4600 Enterprise Information Technology Mgmt with Lab
- ICTN 4800 Information Assurance Technologies with Lab

Information Technology Concentration:
- ICTN 3900 Web Services Management with Lab
- ICTN 4010 User Application Mgmt & Emerging Tech with Lab
- ICTN 4064 Regulations and Policies
- ICTN 4600 Enterprise Information Technology Mgmt with Lab

General Education and Cognates (69 semester hours):

English (6 hrs)
- ENGL 1100, 1200 Composition

Social Science (12 hrs)
- ECON 2113 Prin. of Microeconomics
- PSYC 1000 Introductory Psychology
- PSYC 3241 Industrial Psychology
- Social Science Elective

Humanities & Fine Arts (10 hrs)
- At least one in Humanities
- COMM 2410 or 2420 Speech
- Hum/Fine Arts to total 10 hrs

Health & Exercise (3 hrs)
- MATH 1065 College Algebra
- MATH 1065 with Lab

Science (8 hrs)
- PHYS 1250/51 General Physics I
- PHYS 1260/61 General Physics II

Cognates (9 hrs)
- ITEC 3800 or ACCT 2101
- ITEC 4293 or MGMT 3202

Approved Electives (12 hrs)

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