Description of Program

The Bachelor of Science in Industrial Technology (BSIT) is a degree completion curriculum designed for students who hold a qualifying Associate in Applied Science degree (AAS) in an industrial or technology related field. There are two completion options: enrollment to take main campus courses or complete courses online. The online option is for part-time enrollment only.

The BSIT Information and Computer Technology concentration focuses on the design, implementation, troubleshooting, and maintenance of computer systems and computer networks. In addition, students are prepared for upward mobility with basic management courses. Students may receive up to 38 hours of lower division major credits for completion of a qualifying AAS degree from a technology related field. In addition, up to 22 hours of general education credits may be applied towards the BSIT if equivalent to our requirements. Once enrolled in the BSIT Information and Computer Technology (ICT) concentration, students will need to choose nine approved electives as part of the concentration. Which courses you should choose should align your transfer credits with your career path. Graduates are qualified for career advancement opportunities both in technology and managerial fields.

BSIT ICT concentration requirements:
- Completion of a computer related associate of applied science (AAS) degree program prior to ECU enrollment.
- Must have least one of the following prior to ECU enrollment:
  - Grade of C or higher in NET 125 and NET 126.
  - Current CompTIA Network+ Certification.
  - Current Cisco CCNA Certification.
- Minimum 60 semester hours must be completed at a four-year college or university.
- Minimum 33 semester hours of major coursework must be completed at ECU.
- Only courses with a ‘C’ or better will transfer.
- Total 120 hours required for this degree.
- Visit the program website for admission requirements cet.ecu.edu/techsystems.

BSIT ICT Degree Requirements

Industrial Technology & ICT Coursework (42 hours)
- Technical Writing
- Technology Project Management
- Cost and Capital Project Analysis
- Industrial Supervision
- Introduction to Statistical Process Control

Choose nine courses from below:
- Internet Tools Tech (required for online option)
- Fundamental Network Security with lab
- Network Environment II (RHCSA) with lab
- Network Environment III (RHCE) with lab
- Web Services Management with lab*
- Enterprise Data Storage Technologies
- Enterprise Information Technology Management
- Enterprise Information Security
- Enterprise Server Technology
- Enterprise Server Programming
- Advanced Enterprise Server Programming
- Regulations and Policies***
- Wireless Communication with lab
- Intrusion Detection Technologies with lab
- Digital Forensics
- IPv6 Fundamentals
- IPv6 Security
- Cloud Infrastructure Services
- Virtualization Technologies with lab
- Information Assurance Technologies with lab
- Internetwork Routing Technology (CCNP)** with lab
- Automation and Programming (CCNP)** with lab
- Enterprise Network Security Tech. (Palo Alto)*** with lab
- Enterprise Wireless Networks (CCNP)** with lab

Courses to transfer or taken through ECU (78 hours)

AAS Technical courses (38 hrs) Math (3 hours)

English (6 hours)
- Composition I
- Composition II

Natural Science (7 hours)
- Principles of Microeconomics
- Introductory Psychology
- Personnel & Industrial

Social Science (9 hours)
- College Algebra
- Humanities & Fine Arts (9 hrs)
- At least one Humanities course

Health & Exercise (2, 1 hours)
- At least one Fine Art course
- Hum or Fine Art to total 9
- General Ed Elective (3 hours)
- BUS 115 from the NCCCS)

* required prerequisite of ICTN 2530/1 and ICTN 2510, or NOS 230.
** Current CCNA certification or NET 226 required as a prerequisite.
*** FINA 2244 (equivalent to BUS 115 from the NCCCS) required as a prerequisite.

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