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. All required degree courses are offered on ECU’s campus during the daytime.

The BSIT Mechanical Technology Concentration emphasizes application of state of the art software, digitizing, and product realization/development equipment. Graduates have the opportunity to work as design professionals or as members of a design team. Many graduates progress to supervise a design team or manage a design project. Graduates meet nationally recognized standards in demonstrating knowledge and skills in applying design practices and drafting concepts to solve a broad and varied range of design problems. Professional opportunities upon graduation are found in a range of engineering and architecture related disciplines.

This option prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in the design and development phases of a wide variety of projects involving mechanical systems. It includes instruction in principles of mechanics, applications to specific engineering systems, design testing procedures, prototype and operational testing and inspection procedures, manufacturing system-testing procedures, test equipment operation and maintenance, and report preparation.

Program requirements

- Completed a qualifying associate of applied science degree program.
- Apply up to 62 semester hours from an accredited community college or technical institute.
- Minimum 62 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 124 hours required for this degree.
- Visit the program website for admission requirements – www.ecu.edu/BSIT.

Industrial Technology Degree Requirements

Industrial Technology Major Coursework (42 hours)

- Technical Writing
- Technology Project Management
- Cost and Capital Analysis
- Industrial Supervision
- Introduction to Statistical Process Control
- Engineering Graphics II with Lab
- Rapid Prototyping with Lab
- Jig and Fixture Design with Lab
- Geometric Dimensioning & Tolerancing with Lab
- Computer Numerical Control with Lab
- Robotics in Computer Integrated Manufacturing with Lab
- Plant Layout and Materials Handling
- Approved Technical Electives (6 hours)

Courses to transfer or taken at ECU (84 hours)

AAS Technical courses (37 hrs)  Math (5 hrs)
English (6 hrs)  College Algebra
Composition I  Applied Trigonometry
Composition II  Humanities & Fine Arts (9 hrs)
Natural Science (7 hrs)  At least one in Humanities
* College Physics 1 with lab  At least one in Fine Art
Natural Science  Hum/Fine Arts to total 9 hrs
Social Science (12 hrs)  Other Cognates (3 hrs)
Principles of Microeconomics  Legal Environment of Business
Introductory Psychology  Health & Exercise (2, 1 hrs)
Personnel & Industrial Psychology  General Ed Elective (3 hrs)
*highly recommended as one of the natural sciences– required prerequisite for DESN 3032 Engineering Graphics 2

Contact Information

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Program Website:  www.ecu.edu/BSIT

For more information about admission, tuition, financial aid, housing, and more, please visit ECU’s website at www.ecu.edu.

This program is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE) and the Southern Association of Colleges and Schools (SACS).