



# ECU

## Bachelor of Science in Industrial Technology

### AAS Degree Transfer Program

#### 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 (AAS) degree** in an industrial or technology related field. Based on the technical content of the AAS program, students may receive up to 37 hours of major course credit toward the BSIT lower level major core and free electives. Degree requirements are summarized below. Credit for general education is granted based on standard agreements between ECU and the community college system.

There are two completion options: transfer to the main campus or complete online. Depending on the concentration you choose and the courses transferring into ECU, this program is offered as an online option and as a main campus option. For online students, these semester-based courses are delivered to allow students flexibility with regard to time and place. The Department of Technology systems has delivered internet-based instruction since 1995 to hundreds of students all over the World. Please note that our online option is designed for part-time enrollment to help professionals pursue a degree while working.

For students who plan to attend on main campus, courses are available in a traditional classroom setting as daytime courses. Students are typically able to complete the upper level major coursework in two years if enrolled full-time.

The Association of Technology, Management, and Applied Engineering accredits this degree program. Additionally, ECU is regionally accredited by the Southern Association of Colleges and Schools.

#### Program Requirements

- Completed a qualifying associate of applied science (AAS) degree program prior to enrollment.
- Apply up to 60 semester hours of the 120 required from a regionally accredited community college.
- Minimum 60 semester hours of the 120 required semester hours must be completed at a four-year institution.
- The 33 semester hours of major coursework must be completed through ECU.
- Only courses with a 'C' or better will transfer.
- Meet ECU admission requirements ([www.ecu.edu/admissions](http://www.ecu.edu/admissions))
  - Cumulative GPA of 2.5 or higher and 24 hours of transferable course work
  - 3 transferable hours in English Composition equivalent to ENGL 1100

#### Contact Information

ecuBSIT@ecu.edu  
(252) 328-9301  
[www.ecu.edu/tsys](http://www.ecu.edu/tsys)



#### Required Coursework

##### Industrial Technology Core Coursework (15 hours):

- Technical Writing
- Technology Project Management
- Cost and Capital Project Analysis
- Industrial Supervision
- Introduction to SPC



##### Choose one concentration (27 hours):

- **Mechanical Design Technology** (main campus only)  
Courses such as Rapid Prototyping, Jig & Fixture Design, Geometric Dimensioning and Tolerancing, CNC, CIM, Plant Layout & Materials Handling.
- **Architectural Design Technology** (main campus only)  
Courses such as Architectural Design & Drafting, Sustainable Design, Planning Techniques, Introduction to GIS in Planning, Urban Form & Design.
- **Health Information Technologies**<sup>1</sup> (main campus and online options)  
Courses such as Medical Terminology, Health Care Delivery Methods, Quality Management, Professional Roles & Environments, Payment Systems, Ethical Codes & Law, Health Information Management.  
<sup>1</sup> Requires a networking or computer related AAS degree plus current professional certification of Cisco CCENT, CCNA, CCNP, or CompTIA Network+ to qualify for this concentration.
- **Information & Computer Technology**<sup>2</sup> (main campus & online options)  
Courses such as Network Security, Network Environment II & III, Web Services Management, Communication Security, Regulations and Policies, Intrusion Detection Technologies, CCNP, & more.  
<sup>2</sup> Requires a networking, computer, or electronics related AAS degree plus current professional certification of Cisco CCENT, CCNA, CCNP, or CompTIA Network+ to qualify for this concentration.
- **Distribution & Logistics** (main campus and online options)  
Courses such as Introduction to Distribution & Logistics, ERP Systems, Transportation Logistics, Purchasing Logistics, Supply Chain Logistics, Global Logistics, Strategic Pricing, & more.
- **Industrial Engineering Technology** (main campus and online options)  
Courses such as Industrial Safety, Quality, Plant Layout & Materials Handling, Manufacturing System Planning, Advanced Manufacturing Systems, Work Methods & Ergonomic Analysis, & more.
- **Industrial Management** (main campus and online options)  
Courses such as Distribution & Logistics, Technical Presentations, Supply Chain Logistics, Industrial Safety, Quality Assurance, Plant Layout & Materials Handling, Lean Manufacturing, & more.
- **Bioprocess Manufacturing**<sup>3</sup> (main campus and online options)  
Courses in Microbiology for Ind Processing, Engineering for Food Safety & Sanitation, Separation Techniques, Waste Treatment, Safety, Quality.  
<sup>3</sup> Requires a biotechnology related AAS degree.

##### General Education and Cognates (78 hours):

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| <b>AAS Technical courses (38 hours)</b> | <b>Math (3 hours)</b>                       |
| <b>English (6 hours)</b>                | College Algebra                             |
| Composition I                           | <b>Humanities &amp; Fine Arts (9 hours)</b> |
| Composition II                          |   |
| <b>Natural Science (7 hours)*</b>       | At least one Fine Art course                |
| <b>Social Science (9 hours)</b>         | Hum or Fine Art to total 3 hours            |
| Principles of Microeconomics            | <b>General Ed Elective (3 hours)</b>        |
| Introductory Psychology                 |   |
| Personnel & Industrial Psychology       |   |

\*contact an ECU BSIT academic advisor for BSIT architectural and BSIT mechanical concentration natural science requirements