



# 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.

General education and cognates	From AAS, ECU or other colleges / universities	47 hours
Lower division major coursework and free electives	From AAS major coursework	37 hours
Upper division major coursework	From ECU: on-campus or online	42 hours
Total required		126 hours

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. Please note that our online option is designed for part-time enrollment of one to two courses per term though more courses can be taken if seats are available.

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 63 semester hours of the 126 required from a regionally accredited community college.
- At least 63 semester hours of the 126 required semester hours must be completed at a four-year college or university.
- The 42 semester hours of major coursework must be completed at ECU (available online or main campus).
- Only courses with a 'C' or better will transfer.
- Meet admission requirements as set by ECU Office of Admissions ([www.ecu.edu/admissions](http://www.ecu.edu/admissions))
  - Cumulative GPA of 2.5 or higher
  - 6 transferable hours in English Composition equivalent to ENGL 1100 & ENGL 1200
  - 3 transferable hours of Math equivalent to MATH 1065 College Algebra
  - 30 hours of transferrable general education credit
  - Minimum course requirements if under age 24

### Industrial Technology Coursework (42 hours):

- ITEC 3290 Technical Writing
- ITEC 3300 Technology Project Management
- ITEC 3800 Cost and Capital Project Analysis
- ITEC 4293 Industrial Supervision
- ITEC 3200 Introduction to SPC

### Choose One Concentration (requires nine courses):

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

### General Education and Cognates (84 hours):

#### AAS Technical courses (37 hrs)

#### English (6 hrs)

ENGL 1100 Composition

ENGL 1200 Composition

#### Natural Science (8 hrs)

Social Science (12 hrs)

ECON 2113 Microeconomics

PSYC 1000 Introductory Psychology

PSYC 3241 Industrial Psychology

Social Science Elective

#### Math (5 hrs)

MATH 1065 College Algebra

MATH 1074 Trigonometry

#### 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)

#### Cognates (3 hrs)

FINA 2244 Business Law

### CONTACT INFORMATION

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