# *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 nation. 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 ECU admission requirements as set by ECU Office of Admissions (www.ecu.edu/admissions)
  - Cumulative GPA of 2.5 or higher and 30 hours of transferable course work
  - 6 transferable hours in English Composition equivalent to ENGL 1100 & ENGL 1200
  - 3 transferable hours of Math equivalent to MATH 1065 College Algebra

### Contact Information


ecuBSIT@ecu.edu
(252) 328-9301
www.ecu.edu/tecs/BSIT


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### Required Coursework

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

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