



# *Bioprocess Manufacturing Concentration*

## **Bachelor of Science in Industrial Technology**

### **AAS Degree Completion 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 degree* (AAS) in an industrial or technology related field. *AAS degrees that can transition into the BSIT Bioprocess Manufacturing concentration include: Biotechnology; Bioprocess Technology; Industrial Pharmaceutical Technology; and Chemical Process Technology.* There are two completion options: transfer to the main campus or complete online. All required upper division major courses are offered entirely over the Internet, as well as, on the main campus during the day. For online students, these semester-based courses are delivered to allow students flexibility with regard to time and place. The courses are scheduled on a rolling cycle so that the major courses can be completed in as little as two or three years. 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.

The **BSIT Bioprocess Manufacturing Concentration** prepares students for success and leadership in a wide range of careers in the bioprocessing and biomanufacturing fields. Graduates of this program have the skills for positions in quality operations and production planning, maintenance and operations, laboratory operations, and supervision. 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. Graduates are qualified for career advancement opportunities both in technology and managerial fields.

#### **Program requirements**

- Completed a qualified associate of applied science degree program.
- Apply up to 60 semester hours from an accredited community college or technical institute.
- 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 (available on-line).
- Only courses with a 'C' or better will transfer.
- Total 120 hours required for this degree.
- Visit the program website for admission information.

#### **Industrial Technology Degree Requirements**

##### **Industrial Technology Major Coursework (42 hours)**

- Technical Writing
- Technology Project Management
- Cost and Capital Project Analysis
- Industrial Supervision
- Intro to Statistical Process Control
- Industrial Safety
- Quality Assurance Concepts
- Microbiology for Industrial Processing
- Engineering for Food Safety & Sanitation
- Separation Techniques
- Waste Treatment Techniques
- Quality in Regulatory Environments
- Approved Technical Elective or Internet Tools Technology (required for the online option)



##### **Courses to transfer or taken through ECU (78 hours)**

###### **AAS Technical courses (38 hrs)**

###### **English (6 hours)**

Composition I

Composition II

###### **Natural Sciences (7 hours)**

###### **Social Science (9 hours)**

Principles of Microeconomics

Introductory Psychology

Personnel & Industrial Psychology

###### **Math (3 hours)**

College Algebra

###### **Humanities & Fine Arts (9 hrs)**

At least one in Humanities

At least one in Fine Arts

Hum/Fine Arts to total 9 hrs

###### **General Ed Elective (3 hours)**

###### **Health & Exercise (2, 1 hours)**

#### **Contact Information**

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##### **Program Website:**

cet.ecu.edu/Techsystems

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

For more information about admission, tuition, financial aid, housing, and more, please visit ECU's website at [www.ecu.edu](http://www.ecu.edu)

