



# *Bioprocess Manufacturing Option*

## Bachelor of Science in Industrial Technology

### Online 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 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 technical courses are offered entirely over the Internet and on the main campus. For distance students, the 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.

The *BSIT Bioprocess Manufacturing Option* prepares students for success and leadership in a wide range of careers in the bio processing and bio manufacturing 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 37 technical credits for completion of a qualifying AAS degree from a technology related field. Graduates are qualified for career advancement opportunities both in technology and managerial fields.

This program is accredited by the National Association of Industrial Technology and the Southern Association of Colleges and Schools.

#### Program requirements

- Completed a qualified associate of applied science degree program.
- Apply up to 63 semester hours from an accredited community college or technical institute.
- At least 63 semester hours must be completed at a four-year college or university.
- At least 36 semester hours of major coursework must be completed at ECU (available on-line).
- Only courses with a 'C' or better will transfer.
- Total 126 hours required for this degree.

#### Industrial Technology Degree Requirements

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

- ITEC 3000 Internet Tools Technology
- 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
- ITEC 3292 Industrial Safety
- ITEC 4300 Quality Assurance Concepts
- ITEC 4150 Microbiology for Industrial Processing
- ITEC 4250 Engineering for Food Safety & Sanitation
- ITEC 4350 Separation Techniques
- ITEC 4450 Waste Treatment Techniques
- ITEC 4550 Quality in Regulatory Environments
- Approved Technical Elective

##### Courses to transfer or taken online (84 hours)

- |                                       |  |
|---------------------------------------|--|
| <b>AAS Technical courses (37 hrs)</b> | <b>Math (5 hrs)</b>                        |
| <b>English (6 hrs)</b>                | MATH 1065 College Algebra                  |
| ENGL 1100 Composition                 | MATH 1074 Trigonometry                     |
| ENGL 1200 Composition                 | <b>Humanities &amp; Fine Arts (10 hrs)</b> |
| <b>Science (8 hrs)</b>                | At least one in Humanities                 |
| <b>Social Science (12 hrs)</b>        | COMM 2420 or 2410 Public Speaking          |
| ECON 2113 Prin. of Microeconomics     | Hum/Fine Arts to total 10 hrs              |
| PSYC 1000 Introductory Psychology     | <b>Other Cognates (3 hrs)</b>              |
| PSYC 3241 Industrial Psychology       | FINA 2244 Legal Envir. of Business         |
| Social Science Elective               | <b>Health &amp; Exercise (3 hrs)</b>       |

#### Contact us:

**Program Coordinator:** David Batts  
**E-mail:** Battsd@ecu.edu  
**Phone:** (252) 328-9673

**Community College Coordinator:** Amy Frank  
**E-mail:** Franka@ecu.edu  
**Phone:** (252) 328-9754 or (800) 398-9275  
**Fax:** (252) 328-5343  
**Internet:** www.options.ecu.edu

#### Tuition & Fees (subject to change)

- NC Resident: \$94 per credit
- Non-resident: \$450 per credit



