



Baccalaureate Degree Plan

NCCCS Associate in Arts *or* Associate in Science
transfer to

East Carolina University, **BS Industrial Engineering Technology**

- The Industrial Engineering Technology, BS prepares students for careers in production and project engineering and management, quality assurance/quality control, inventory control, and technical and industrial supervision. The program utilizes an application oriented, hands-on approach to teach fundamentals of engineering technology and skills in communications, teamwork, problem solving, technical management, and leadership, which are highly sought by industrial employers and other businesses in our region and nation.
- As a transfer student, it is important to contact an ECU Academic Advisor, cetadvising@ecu.edu, as soon as possible.

An example of how to plan your first 2 years of the traditional 4 years of study is included at the end of this document. However, depending on when you transfer and how many recommended courses you take at the community college, it may take longer than 4 years to complete any degree at ECU.

Recommended courses to take at a NCCCS community college:

ECO 251	HEA 110	MAT 152	PHY 151
		MAT 171	PHY 152
ENG 111			
ENG 112			PSY 150

- Other courses to complete an AA or AS are student's choice; no other current department recommendations. Other equivalent courses may be listed in the degree requirements.
- Completion of an approved NCCCS AA or AS waives the General Education requirement. For more information about the waiver, [click here](#).
- For more information about General Education Core Requirements at ECU, and a list of specific course options, click [here](#).
- You do not have to complete all NCCCS equivalents or recommended courses before transferring. However, taking minimal recommendations may prolong your time to degree at ECU.

Degree Requirements

General Education Core Requirements

40 semester hours credit required; completion of an approved AA or AS waives this requirement, with the exception of Health Promotion and Health-Related Physical Activity.

Competency	Semester Hour Credits Required	Notes
Written Communication	6	<i>ENG 111 and ENG 112 should be taken at the community college to satisfy this competency.</i>
Humanities & Fine Arts	9	<i>At least one class should be labeled as Humanities (HU) and one should be labeled as Fine Arts (FA).</i>
Social Sciences	9	<i>NCCCS HIS courses are not considered a social science at ECU.</i>
Natural Sciences	7	<i>One course must include a lab.</i>
Mathematics	3	<i>Choose MAT 171.</i>
Health Promotion and Health-Related Physical Activity	3	<i>HEA 110 should be taken at the community college to satisfy this competency.</i>

General Education Specific Requirements	<p>Include the following, specific courses as part of your General Education Core:</p> <p style="padding-left: 20px;">ECON 2113 - Principles of Microeconomics</p> <p style="padding-left: 20px;">MATH 1065 - College Algebra or MATH 1066 - Applied Mathematics for Decision Making</p> <p style="padding-left: 20px;">PHYS 1250 - General Physics I PHYS 1251 - General Physics Laboratory I PHYS 1260 - General Physics II</p> <p style="padding-left: 20px;">PSYC 1000 - Introductory Psychology PSYC 3241 - Personnel and Industrial Psychology</p> <p><i>Note: PHYS 1261 counts as the general education elective requirement for this degree. See note in cognate section.</i></p>	<p><i>NCCCS Equivalents</i></p> <p style="text-align: center;"><i>ECO 251</i></p> <p style="text-align: center;"><i>MAT 171</i></p> <p style="text-align: center;"><i>PHY 151</i></p> <p style="text-align: center;"><i>PHY 152</i> <i>PSY 150</i></p>
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Core	<p>Complete 69 hours.</p> <p style="padding-left: 20px;">DESN 2034 - Engineering Graphics I DESN 2035 - Engineering Graphics I Laboratory DESN 2036 - Computer-Aided Design and Drafting DESN 2037 - Computer-Aided Design and Drafting Laboratory IDIS 3790 - Technical Presentations IENG 2020 - Materials and Processes Technology IENG 2021 - Materials and Processes Technology Laboratory IENG 2076 - Introduction to Computer Numerical Control IENG 2077 - Introduction to Computer Numerical Control Laboratory IENG 3020 - Robotics in Computer Integrated Manufacturing IENG 3021 - Robotics in Computer Integrated Manufacturing Laboratory IENG 3300 - Plant Layout and Materials Handling IENG 3600 - Statics and Strength of Materials IENG 4020 - Manufacturing System Planning</p>	<p><i>NCCCS Equivalents do not currently exist for these courses.</i></p> <p style="text-align: center;"><i>Students will complete them upon enrolling at ECU.</i></p>
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	<p>IENG 4023 - Advanced Manufacturing Systems IENG 4200 - Work Methods and Ergonomics Analysis IENG 4900 - Capstone ITEC 2000 - Industrial Technology Applications of Computer Systems ITEC 2054 - Electricity/Electronics Fundamentals ITEC 2055 - Electricity/Electronics Fundamentals Laboratory ITEC 2080 - Thermal and Fluid Systems ITEC 2081 - Thermal and Fluid Systems Laboratory ITEC 2090 - Electromechanical Systems ITEC 2091 - Electromechanical Systems Laboratory ITEC 3200 - Introduction to Statistical Process Control ITEC 3290 - Technical Writing ITEC 3292 - Industrial Safety ITEC 3300 - Technology Project Management ITEC 3800 - Cost and Capital Project Analysis ITEC 4293 - Industrial Supervision ITEC 4300 - Quality Assurance Concepts</p>	
Cognates	<p>Complete 3 hours.</p> <p><i>(PHYS 1261 counts toward the general education elective requirement for this degree. See note in general education section. Semester hour earned for this course is not included in the 3 s.h. cognate requirement.)</i></p> <p>MATH 2283 - Statistics for Business PHYS 1261 - General Physics Laboratory II</p>	<p><i>NCCCS Equivalents</i></p> <p>MAT 152 PHY 152</p>
Approved Elective	<p>Choose 3 hours.</p> <p>IENG 4024 - Electromechanical Systems Integration and IENG 4025 - Electromechanical Systems Integration Laboratory or IENG 4092 - Operations Research or ITEC 4503 - Special Topics: Industrial Technology</p>	<p><i>NCCCS Equivalents do not currently exist for these courses.</i></p> <p><i>Students will complete them upon enrolling at ECU.</i></p>
General Electives	<p>Complete any necessary electives toward graduation requirement.</p>	

Potential 2 Year Map for BS Industrial Engineering Technology

An example of courses to take at your community college.

First Semester at NCCCS Institution

NCCCS Course	ECU Transfer Equivalent
ENG 111	ENGL 1100
ECO 251	ECON 2113
MAT 171	MATH 1065
HEA 110	HLTH 1000/KINE 1000
ACA 122	COAD 1XXX (elective credit)

Second Semester at NCCCS Institution

NCCCS Course	ECU Transfer Equivalent
PSY 150	PSYC 1000
PHY 151	PHYS 1250, 1251
MAT 152	MATH 2228/2283
Humanities/Fine Arts course	
Additional General Education course	MIS 2223

Third Semester at a NCCCS Institution

NCCCS Course	ECU Transfer Equivalent
ENG 112	ENGL 2201
Humanities/Fine Arts course	
Additional General Education course	
Social Behavioral Science course or PHY 152	PHYS 1260, 1261
Additional General Education course	

Fourth Semester at a NCCCS Institution

NCCCS Course	ECU Transfer Equivalent
Humanities/Fine Arts course or 2 nd Math course	
Additional General Education course	
Elective course	
Elective course	
Elective course (if needed)	

- Schedule at ECU will depend on courses completed at the community college and semester of entry (fall or spring).
- You should email cetadvising@ecu.edu as soon as possible for more specialized advising.
- This schedule is dependent on taking full-time course loads; however, it may not be realistic to take a full-time course load if you are working full-time or part-time, are a caregiver, or have other obligations. **Ask your advisor how you can be most successful.**