



Baccalaureate Degree Plan

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

East Carolina University, **BS Information and Cybersecurity Technology**

- The Information and Cybersecurity Technology, BS is accredited by the Association of Technology, Management, and Applied Engineering and prepares students for a career in information technology, computer networking, systems administration, cybersecurity, cloud technologies and technical management.
- Students are required to have an internship and to complete a two-semester professional capstone project. Additional opportunities to obtain further industry experience through co-op positions and course-based projects in the program, and by graduating with extra credentials.
- 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:

ENG 111	HEA 110	MAT 152	PHY 151
ENG 112		MAT 171	PHY 152
			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: 40px;">MATH 1065 - College Algebra</p> <p style="padding-left: 40px;">PHYS 1250 - General Physics I</p> <p style="padding-left: 40px;">PHYS 1251 - General Physics Laboratory I</p> <p style="padding-left: 40px;">PHYS 1260 - General Physics II</p> <p style="padding-left: 40px;">PSYC 1000 - Introductory Psychology</p> <p style="padding-left: 40px;">PSYC 3241 - Personnel and Industrial Psychology</p>	<p><i>NCCCS Equivalents</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></p> <p style="text-align: center;"><i>PSY 150</i></p>
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Lower Division Core	<p>Complete 24 hours.</p> <p style="padding-left: 40px;">ICTN 1500 - Information and Cybersecurity Technology Fundamentals</p> <p style="padding-left: 40px;">ICTN 1501 - Information and Cybersecurity Technology Fundamentals Laboratory</p> <p style="padding-left: 40px;">ICTN 2150 - Network Fundamentals</p> <p style="padding-left: 40px;">ICTN 2151 - Network Fundamentals Laboratory</p> <p style="padding-left: 40px;">ICTN 2154 - Digital Communication Systems</p> <p style="padding-left: 40px;">ICTN 2155 - Digital Communication Systems Laboratory</p> <p style="padding-left: 40px;">ICTN 2158 - Computer Networking Technology</p> <p style="padding-left: 40px;">ICTN 2159 - Computer Networking Technology Laboratory</p> <p style="padding-left: 40px;">ICTN 2510 - Network Environment I</p> <p style="padding-left: 40px;">ICTN 2511 - Network Environment I Laboratory</p> <p style="padding-left: 40px;">ICTN 2530 - Network Environment II</p> <p style="padding-left: 40px;">ICTN 2531 - Network Environment II Laboratory</p> <p style="padding-left: 40px;">ICTN 2702 - Cloud Fundamentals</p> <p style="padding-left: 40px;">ICTN 2703 - Cloud Fundamentals Laboratory</p> <p style="padding-left: 40px;">ICTN 2732 - Scripting for Information Technology</p>	<p><i>NCCCS Equivalents</i></p> <p style="text-align: center;"><i>CTI 120*</i></p>
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Upper Division Core	<p>Complete 25 hours.</p> <p style="padding-left: 40px;">ICTN 2900 - Fundamental Network Security</p> <p style="padding-left: 40px;">ICTN 2901 - Fundamental Network Security Laboratory</p> <p style="padding-left: 40px;">ICTN 3064 - Regulations and Policies</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>ICTN 4000 - Information and Cybersecurity Technology Internship</p> <p>ICTN 4020 - Senior Information and Cybersecurity Technology Capstone Design Project I</p> <p>ICTN 4022 - Senior Information and Cybersecurity Technology Capstone Design Project II</p> <p>ICTN 4520 - Wireless Communication</p> <p>ICTN 4521 - Wireless Communication Laboratory</p> <p>IDIS 3790 - Technical Presentations</p> <p>ITEC 3290 - Technical Writing</p> <p>ITEC 3300 - Technology Project Management</p>	
Concentrations	Complete 12 hours by choosing one from Cloud Technologies, Computer Networking, or Cybersecurity.	
Cloud Technologies	<p>ICTN 3704 - Cloud Management</p> <p>ICTN 3705 - Cloud Management Laboratory</p> <p>ICTN 4700 - Virtualization Technologies</p> <p>ICTN 4701 - Virtualization Technologies Laboratory</p> <p>ICTN 4760 - Cloud Infrastructure Services</p> <p>ICTN 4761 - Cloud Infrastructure Services Laboratory</p> <p>ICTN 4762 - Cloud Operations</p> <p>ICTN 4763 - Cloud Operations Laboratory</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>
Computer Networking	<p>ICTN 3250 - Internetwork Routing Technology</p> <p>ICTN 3251 - Internetwork Routing Technology Laboratory</p> <p>ICTN 3902 - Implementing Cyberinfrastructure Security</p> <p>ICTN 3903 - Implementing Cyberinfrastructure Security Laboratory</p> <p>ICTN 4252 - Network Automation and Programming</p> <p>ICTN 4253 - Network Automation and Programming Laboratory</p> <p>ICTN 4254 - Implementing Enterprise Wireless Networks</p> <p>ICTN 4255 - Implementing Enterprise Wireless Networks Laboratory</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>
Cybersecurity	<p>ICTN 3902 - Implementing Cyberinfrastructure Security</p> <p>ICTN 3903 - Implementing Cyberinfrastructure Security Laboratory</p> <p>ICTN 3910 - Ethical Hacking and Penetration Testing</p> <p>ICTN 3911 - Ethical Hacking and Penetration Testing Laboratory</p> <p>ICTN 4200 - Intrusion Detection Technologies</p> <p>ICTN 4201 - Intrusion Detection Technologies Laboratory</p> <p>ICTN 4904 - Cyberinfrastructure Security Management</p> <p>ICTN 4905 - Cyberinfrastructure Security Management Laboratory</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>
Cognates	<p>Complete 3 hours.</p> <p>ITEC 3200 - Introduction to Statistical Process Control or</p> <p>ITEC 3800 - Cost and Capital Project Analysis or</p> <p>MATH 2283 - Statistics for Business</p>	<p><i>NCCCS Equivalents</i></p> <p>MAT 152</p>
Approved Electives	Complete approved electives for graduation requirements.	

*CTI 120 is not an approved CAA transfer course. Students are not expected to complete before entering ECU; however, if you were to complete the course it would transfer toward your degree at ECU.

Potential 2 Year Map for BS Information and Computer 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
PSY 150	PSYC 1000
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
Social Behavioral Science course	
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 Additional General Education course	
PHY 152	PHYS 1260, 1261

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.**