

**TRANSFER PATHWAY**  
**(For Transfer to New England College)**  
**ASSOCIATE OF APPLIED SCIENCE IN CYBER SECURITY – CYBER DEFENSE EMPHASIS TO**  
**BACHELOR OF SCIENCE WITH A MAJOR IN CYBERSECURITY**

**Catalog Year** 2019-2020      You may use this pathway if you entered one of the seven colleges on or before this date.

**Career Path** STEM Career Path

**Available at** Richland College

**TSI** Must be Complete

**SEMESTER-BY-SEMESTER MAP FOR FULL-TIME STUDENTS**

Although there may be several options to fulfill certain requirements for the associate's degree, please note that this pathway lists the specific courses leading to this bachelor's degree. All plans can be modified to fit the needs of part-time students. This is not an official degree plan. Refer to catalog for official degree requirements. You must receive a GPA of at least 2.00 on all college-level course work. Students must earn at least 25% of the credit hours required for graduation through instruction by one of the seven DCCCD colleges awarding the degree. You will need to apply for the associate's degree at your college. Contact your advisor for information.

**AAS DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS**

**SEMESTER 1** **Total Hours: 15**

**ENGL 1301** – Composition I *This is a (CB 010) Core course. Must earn a grade of "C" or higher.*  
**ITCC 1414** – CCNA 1: Introduction to Networks  
**MATH 1314** – College Algebra *This is a (CB 020) Core course. Must earn a grade of "C" or higher.*  
**ITSC 1416** – Linux Installation and Configuration  
**POFI 1104** – Computer Fundamentals *Students must choose Word Processing Skills or Spreadsheet Skills.*

**SEMESTER 2** **Total Hours: 15**

**ITSY 1400** – Fundamentals of Information Security  
**ITMT 2405** – Designing and Implementing a Server Infrastructure  
**ITCC 1440** – CCNA 2: Routing and Switching Essentials  
**SPCH 1321** – Business and Professional Communication *This is a (CB 090) Core course.*

**SEMESTER 3** **Total Hours: 15**

**ITMT 1457** – Administering a Windows Server Operating System  
**ITSY 1442** – Information Technology Security  
**ITSE 1429** – Programming Logic and Design  
**Humanities/Fine Arts Core Elective** *This is a (CB 040 or CB 050) Core course. There are several options to fulfill this requirement. Contact your academic advisor for a specific list.*

**SEMESTER 4** **Total Hours: 15**

**ITSY 2401** – Firewalls and Network Security  
**ITSC 2425** – Advanced Linux  
**Social/Behavioral Science Core Elective** *This is a (CB 080) Core course. There are several options to fulfill this requirement. Contact your academic advisor for a specific list.*  
**CHOOSE ONE:** **ITSY 2472** – Ethical Hacking and System Defense **OR**  
**ITSY 2486** – Internship-Computer and Information Security

**NEW ENGLAND COLLEGE  
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**TERM-BY-TERM MAP FOR FULL-TIME STUDENTS**

A maximum of 90 credits may be transferred to New England College (“NEC”). Please see the NEC Academic Catalog for full transfer credit policies, graduation requirements, and program requirements ([www.nec.edu](http://www.nec.edu)). Depending on your first term with NEC, courses may not be offered in the sequence below, but an educational plan will be developed based on your needs with the help of your Academic Advisor. For questions about the New England College portion of this transfer pathway, contact the SGPS Admissions Office at (603) 428-2252 or [graduateadmission@nec.edu](mailto:graduateadmission@nec.edu). It is best to apply to New England College a full semester before you plan to transfer. It will help if you submit a copy of this pathway with your application.

**BS DEGREE MINIMUM: 120 SEMESTER CREDIT HOURS; CUMULATIVE GPA 2.00; MAJOR GPA 2.00**

**FIRST YEAR – FIRST TERM Total Hours: 4**

**CS 3101** – Policy, Legal, Ethics and Compliance *This is a major course.*

**FIRST YEAR – SECOND TERM Total Hours: 4**

**CS 2001** – IT System Components *This is a major course.*

**FIRST YEAR – THIRD TERM Total Hours: 8**

**LAS 1** – The Natural Environment *This is a Liberal Arts and Sciences Core Curriculum course.*

**Free Elective** *There are several options to meet this requirement. Please contact your academic advisor for a list of available options for this term.*

**FIRST YEAR – FOURTH TERM Total Hours: 4**

**LAS 2** – The Civic Environment – Democratic Values *This is a Liberal Arts and Sciences Core Curriculum course.*

**FIRST YEAR – FIFTH TERM Total Hours: 6**

**CompTIA Certification Prep** (Choose from CS 2010, 2011, 2012, 2013, 2014, 2015) *This is a major course.*

**LAS Elective** – Choose from LAS 1 – 7 *This is a Liberal Arts and Sciences Core Curriculum course.*

**FIRST YEAR – SIXTH TERM Total Hours: 4**

**LAS 3** – The Creative Arts *This is a Liberal Arts and Sciences Core Curriculum course.*

**SECOND YEAR – FIRST TERM Total Hours: 4**

**TAKE THE COURSE FOR YOUR TRACK:** **CS 3304** – Basic Cryptography (*Technical track*) **OR**  
**CS 3105** – Data Administration (*Management track*)

**SECOND YEAR – SECOND TERM Total Hours: 8**

**LAS 5** – Laboratory Science *This is a Liberal Arts and Sciences Core Curriculum course.*

**TAKE THE COURSE FOR YOUR TRACK:** **Free Elective** (*Technical track*) *Contact your academic advisor for options.* **OR**  
**CS 3102** – Cybersecurity Planning and Management (*Management track*)

**SECOND YEAR – THIRD TERM Total Hours: 4**

**TAKE THE COURSE FOR YOUR TRACK:** **CS 3306** – Databases (*Technical track*) **OR**  
**CS 3106** – Fraud Prevention and Management (*Management track*)

**SECOND YEAR – FOURTH TERM Total Hours: 4**

**TAKE THE COURSE FOR YOUR TRACK:** **CS 3305** – Operating Systems Concepts (*Technical track*) **OR**  
**CS 3103** – Security Program Management (*Management track*)

**SECOND YEAR – FIFTH TERM Total Hours: 6**

**CompTIA Certification Prep** (Choose from CS 2010, 2011, 2012, 2013, 2014, 2015) *This is a major course.*

**LAS 7** – Global Perspectives *This is a Liberal Arts and Sciences Core Curriculum course.*

**SECOND YEAR – SIXTH TERM Total Hours: 4**

**TAKE THE COURSE FOR YOUR TRACK:** **CS 4301** – Network Defense (*Technical track*) **OR**  
**CS 3104** – Security Risk Analysis (*Management track*)