

**STEM**

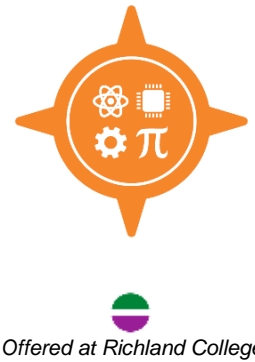
**GUIDED PATHWAY: CYBER SECURITY AAS--SYSTEM SECURITY ADMINISTRATION EMPHASIS**

For more information, visit [www.dcccd.edu/cybersecurity](http://www.dcccd.edu/cybersecurity) and your academic advisor at Richland College.

This is an example course sequence for students interested in pursuing the Cyber Security – System Security Administration Emphasis associate degree. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn an Associate of Applied Science (AAS) degree in Cyber Security <sup>ii</sup>. For official degree requirements, [click here](#).

The AAS degree program in Cyber Security System Security Administration Emphasis is designed to prepare students for various entry-level opportunities in the information security sector with emphasis in secure systems administration. The System Security Administration emphasis combines systems administration fundamentals with the requisite security concepts and best practices required to implement, administer, and harden operating systems. Students completing this degree can apply for jobs such as: System Administrator, Network Defense Technician, Intrusion Detection System Analyst. Gainful employment information for this degree can be found at [www.dcccd.edu/gainfulemp](http://www.dcccd.edu/gainfulemp). Courses that complete the Degree (D) are noted below.

Visit [www.ntxccc.org/pathways](http://www.ntxccc.org/pathways) to view guided pathways created for students who complete an AAS degree and the options for transfer to complete a Bachelor of Applied Arts and Science. Speak with an academic advisor at your college to choose courses that will help you to transfer to a specific university.



**COLLEGE READINESS REQUIREMENTS**

Enrolling in one or more courses may be necessary if assessment activities and previous academic experiences indicate a need for additional knowledge and skills:

**READING & WRITING PLACEMENT**

**MATH PLACEMENT**

**ENGLISH LANGUAGE PROFICIENCY**

TSI READING MET:  YES  NO

TSI MATH MET:  YES  NO

ENGLISH PROFICIENCY:  YES  NO

TSI WRITING MET:  YES  NO

IF TSI OR ENGLISH LANGUAGE PROFICIENCY NOT MET, INSERT COURSE(S) NEEDED

DREA / DWRI / DIRW (CIRCLE ONE)

DMAT \_\_\_\_\_

ESOL \_\_\_\_\_

OTHER: \_\_\_\_\_

OTHER: \_\_\_\_\_

OTHER: \_\_\_\_\_

Exemptions/waivers may exist. Speak with an academic advisor regarding placement in college readiness courses and your ability to enroll in core academic coursework.

**SEMESTER-BY-SEMESTER MAP FOR FULL-TIME STUDENTS <sup>iii</sup>**  
**ALL MAPS CAN BE MODIFIED TO FIT THE NEEDS OF PART-TIME STUDENTS**

D	SEMESTER 1	ACTION ITEMS
♦	ENGL 1301 – Composition I <sup>iv</sup> (core course)	<input type="checkbox"/> Meet with your advisor to confirm academic and career goals before the end of the semester. <input type="checkbox"/> Meet with a career advisor or coach to research your career options. <input type="checkbox"/> Attend an industry related meetup group. <input type="checkbox"/> Get certified in Redhat or Linux+.
♦	ITCC 1414 – CCNA 1: Introduction to Networks	
♦	MATH 1314 – College Algebra <sup>iv</sup> (core course)	
♦	ITSC 1416 – Linux Installation and Configuration	
♦	POFI 1104 – Computer Fundamentals <sup>v</sup>	
<b>TOTAL SEMESTER CREDIT HOURS: 15</b>		
D	SEMESTER 2	ACTION ITEMS
♦	ITSY 1400 – Fundamentals of Information Security	<input type="checkbox"/> Meet with your advisor to file an official degree plan, confirm or update your academic and career path and program of study. <input type="checkbox"/> Obtain Security+ certification. <input type="checkbox"/> Attend an industry related meetup group. <input type="checkbox"/> Participate in Cyber Security club meetings and competitions.
♦	ITMT 2405 – Designing and Implementing a Server Infrastructure	
♦	ITSC 1425 Personal Computer Hardware	
♦	SPCH 1321 – Business and Professional Communication (core course)	
<b>TOTAL SEMESTER CREDIT HOURS: 15</b>		
D	SEMESTER 3	ACTION ITEMS
♦	ITSY 2442 – Incident Response and Handling	<input type="checkbox"/> Meet with a career advisor or coach for assistance in preparing for job search. <input type="checkbox"/> Obtain CySA+ certification. <input type="checkbox"/> Attend an industry related meetup group. <input type="checkbox"/> Participate in Cyber Security club meetings and competitions. <input type="checkbox"/> Meet with a faculty regarding internship opportunities.
♦	ITMT 1457 – Administering a Windows Server Operating System	
♦	ITSE 1429 – Programming Logic and Design	
♦	Humanities/Fine Arts Elective <sup>vi</sup> (core course)	
<b>TOTAL SEMESTER CREDIT HOURS: 15</b>		
D	SEMESTER 4	ACTION ITEMS
♦	ITSC 2425 – Advanced Linux	<input type="checkbox"/> Obtain Pentest+ Certification. <input type="checkbox"/> See faculty or career services for employment opportunities. <input type="checkbox"/> Review your degree plan and apply for graduation. <input type="checkbox"/> Sign up for commencement. <input type="checkbox"/> Join the <a href="#">Alumni Network!</a>
♦	ITMT 2404 – Implementing an Advanced Server Infrastructure	
♦	ITSY 2400 – Operating System Security <u>OR</u> ITSY 2486 – Internship-Computer and Information Systems Security	
♦	Social/Behavioral Sciences Elective <sup>vi</sup> (core course)	
<b>TOTAL SEMESTER CREDIT HOURS: 15</b>		
<b>AAS DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS   PATHWAY TOTAL: 60 SEMESTER CREDIT HOURS</b>		

<sup>i</sup> Degree plans may change in later catalogs. You may use this pathway if you entered one of the seven colleges on or before this date.

<sup>ii</sup> Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by Richland College.

<sup>iii</sup> This is not an official degree plan. For official degree requirements, [click here](#).

<sup>iv</sup> You must earn a grade of "C" or better in English 1301 and MATH 1314.

<sup>v</sup> Students must choose Word Processing Skills or Spreadsheet Skills.

<sup>vi</sup> There are several options to fulfill this requirement. See your academic advisor for a specific list.

THIS PATHWAY WAS LAST UPDATED ON JULY 30, 2019