

NETWORK SECURITY ENGINEERING: AAS

Part-Time Academic Plan

Missouri Civics Examination. Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully

complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (<https://stlcc.edu/programs-academics/missouri-civics-exam.aspx>).**

PLEASE NOTE: If you originally enrolled at STLCC prior to Spring 2026, you may need to view an **archived catalog (<https://catalog.stlcc.edu/archived-catalogs/>)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

Code	Title	Hours	Prerequisites	Milestones/Notes
First Year				
Fall				
IT 100	Introduction to Cybersecurity	1	Reading Proficiency	Offered Fall and Spring. Exploratory Course.
IS 229	Unix/Linux I	3	Reading Proficiency	Offered Fall, Spring, and Summer. Gateway Course, Critical Course.
Select one of the following:		3		MTH 161 is highly recommended.
MTH 161	Quantitative Reasoning (MOTR MATH 120)		Satisfactory score on placement test and Reading Proficiency	
MTH 180	Introductory Statistics (MOTR MATH 110)		Satisfactory scores on placement test, and Reading Proficiency	
MTH 160	Precalculus Algebra (MOTR MATH 130) (or higher)		MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency	
ENG 101	College Composition I (MOTR ENGL 100)	3	Placement score or ENG 030 or ENG 070 with a grade of "C" or better or recommendation of department and Reading Proficiency or concurrent enrollment in RDG 079	
	Credit Hours	10		
Spring				
IT 101	Cisco Networking Academy I: Introduction to Networks	5	Reading Proficiency	1st 8 weeks. Offered Fall, Spring, and Summer. Gateway Course, Critical Course.
IT 201	Cisco Networking Academy II: Switching, Routing, and Wireless Essentials	5	IT 101 with a minimum grade of "C", and Reading Proficiency	2nd 8 weeks. Offered Fall, Spring, and Summer.
	Credit Hours	10		
Summer				
IS 237	Fundamentals of Information Assurance/Security - CompTIA Security +	3	IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency	Offered Fall, Spring, and Summer
ENG 102 or 103	College Composition II (MOTR ENGL 200) or Report Writing (MOTR ENGL 110)	3	ENG 101 with a minimum grade of "C" and Reading Proficiency	
	Credit Hours	6		
Second Year				
Fall				
IT 202	Cisco Networking Academy III: Enterprise Networking, Security, and Automation	5	IT 201 with a minimum grade of "C", and Reading Proficiency	1st 8 weeks. Offered Fall and Spring.

Choose one of the following:		5		2nd 8 weeks. One of the two courses is offered Fall and Spring.
IT 208	Cisco Networking Academy: CCNA Security		IT 201 with a minimum grade of "C" or a Cisco CCENT or CCNA certification and Reading Proficiency	
IT 250	Cisco Networking Academy: CCCA Cybersecurity Operations		IT 101 with a minimum grade of "C" and Reading Proficiency	
	Credit Hours	10		
Spring				
IT 121	Secure E-Commerce	3	IS 229 and IS 237, both with a minimum grade of "C" and Reading Proficiency	Offered Spring and Summer
IS 264	Unix/Linux II	3	IS 229 with a minimum grade of "C" and Reading Proficiency	Offered Fall and Spring
XXX xxx	MOTR Natural Sciences or Mathematics Elective	3		Recommended: MTH 160, CHM 123, or BIO 109
	Credit Hours	9		
Summer				
XXX xxx	Social & Behavioral Sciences: Civics Requirement (https://catalog.stlcc.edu/general-education/)	3		
	Credit Hours	3		
Third Year				
Fall				
IS 280	Python	3	Reading Proficiency	Offered Fall and Spring
XXX xxx	Program Elective	3		Recommendations: IT 212 Ethical Hacking, IT 216 Digital Forensics, IS 130 Hardware Support - CompTIA A + Core 1 (Hardware), IT 102 Desktop Software Support - CompTIA A+ Core 2 (Software)
	Credit Hours	6		
Spring				
IT 120	Enterprise Security Management	3	IS 237 with a minimum grade of "C" and Reading Proficiency	Offered Spring Only
XXX xxx	Program Elective	3		Recommendations: IT 212 Ethical Hacking, IT 216 Digital Forensics, IS 130 Hardware Support - CompTIA A + Core 1 (Hardware), IT 102 Desktop Software Support - CompTIA A+ Core 2 (Software)
	Credit Hours	6		
	Total Credit Hours	60		

Program Electives-Select two of the following (6 credits minimum):

Code	Title	Credit Hours
IS 130	Hardware Support - CompTIA A+ Core 1 (Hardware)	3
IT 102	Desktop Software Support - CompTIA A+ Core 2 (Software)	3
IT 211	Introduction to Virtualization and Cloud Computing	3

IT 212	Ethical Hacking	3
IT 215	Cloud Security	3
IT 216	Digital Forensics	3
IT 251	Cisco Networking Academy: CCNA DevNet Associate	5

Critical Courses: Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

Exploratory Courses: Exploratory courses are first-semester courses that introduce the program and career field.

Gateway Courses: Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.