

**Columbus State Community College
Associate of Applied Science (AAS) Degree,
Computer Science-Cybersecurity
to Wright State University
Bachelor of Science (BS) Degree,
Major: Information Technology & Cybersecurity
Sample Graduation Plan**

Required Courses for the AAS Degree in Cybersecurity

DEGREE REQUIREMENTS — COMPUTER SCIENCE - CYBERSECURITY MAJOR AAS

FIRST SEMESTER (AUTUMN)

Course	Term	Credits	Milestones/Progress Check
CSCI1103 - Intro to Programming Logic	AU SP SU	3.0	• ITST 1102 can be used to prepare for the Microsoft Certified Professional (MCP) Certificate.
CSCI1320 - Database Fundamentals	AU SP SU	3.0	
ITST1101 - IT Fundamentals +	AU SP SU	2.0	
ITST1102 - Industrial Network Communications	AU SP SU	2.0	
COLS1100 - First Year Experience Seminar	AU SP SU	1.0	
ENGL1100 - Composition I	AU SP SU	3.0	
Semester Credits		14	

SECOND SEMESTER (SPRING)

Course	Term	Credits	Milestones/Progress Check
HUM-XXXX (select from List)		3.0	• ITST 2238 can be used to prepare students to take the CompTIA Network+ Certificate test.
CSCI1152 - Networking Concepts (Network+)	AU SP SU	3.0	
ITST2238 - Information Security Fundamentals	AU SP SU	3.0	
ITST1136 - Linux Essentials	AU SP	3.0	
CSCI2781 - Computer Security Ethical and Legal Foundations	AU SP	3.0	
Semester Credits		15	

THIRD SEMESTER (SUMMER)

Course	Term	Credits	Milestones/Progress Check
CSCI1772 - Networking I	SP	3.0	
ITST2252 - Scripting Fundamentals	AU SP	2.0	
SBS - XXXX (Select from list)		3.0	
NAT - XXXX (Select from list)		3.0	
Semester Credits		11	

FOURTH SEMESTER (AUTUMN)

Course	Term	Credits	Milestones/Progress Check
CSCI2776 - Network Security Fundamentals	AU SP	3.0	• CSCI 2790 can be used to prepare for the CompTIA Linux+ Certificate test. Wright State prefers students complete STAT 1350 instead of 1400- SEE NOTES on page 2.
ITST2258 - Application Security	AU	3.0	
CSCI2790 - Linux Administration (Linux+)	AU SU	3.0	
STAT1400 - Statistical Concepts for Business	AU SP SU	3.0	
CSCI2752 - CISCO Switching, Routing & Wireless Essentials (SRWE)	AU SP	3.0	
Semester Credits		15	

FIFTH SEMESTER (SPRING)

Course	Term	Credits	Milestones/Progress Check
CSCI2783 - Ethical Hacking & Systems Defense	AU SP	3.0	
CSCI2780 - Computer Forensics and Incident Response	SP	3.0	
CSCI2802 - CSCI Seminar and	AU SP SU	1.0	
CSCI2902 - CSCI Practicum or	AU SP SU	3.0	
CSCI2999 - CSCI Capstone	AU SP	3.0	
Semester Credits		9 - 10	
TOTAL ACCUMULATED CREDITS		64 - 65	

Required Courses for the BS Degree, Information Technology & Cybersecurity Major

Year 1

Autumn Semester	Spring Semester
CEG 2350 Operating System Concepts & Usage (4)	Natural Science Course (3)
CS 1000 Technology & Society (3)	CS 3170 Mobile Application Development (3)
CS 2200, EGR 1010, MTH 2240, or MTH 2280 (choose one) (4)	CS 3700 Intro to Databases & Modeling (3)
CS 2800 Web Development I (3)	EGR 3350 or ENG 2140 (choose one) (3)
	Arts/Humanities Course (3)
(14)	(15)

Year 2

Autumn Semester	Spring Semester
CEG 4424 Security Attacks & Defenses (3)	CEG 4430 Cyber Network Security (3)
CEG 4980 Team Projects I (3)	CEG 4981 Team Projects II (3)
CEG/CS Technical Elective (4000 Level or above) (3)	CEG/CS Technical Elective (4000 Level or above) (3)
General Elective Credit (3)	General Elective Credit (3-6)
Additional Core Course (3)	
(15)	(12-15)

Notes about the BS Degree, Information Technology & Cybersecurity Major

- **STAT 1350** – Students should complete STAT 1350: Elementary Statistics instead of STAT 1400 for the CSCC AAS degree. Students will need to speak with their CSCI academic advisor to make this exception to their degree program. Students may contact their advisor through this link: <https://www.cscce.edu/services/advising/be-advising.shtml>
- **Required coursework to enter the major:** Students must complete ITST 2252 and ENGL 1100 at Columbus State with a grade of “C” or higher. Students must have an overall GPA of 2.0 or higher to be accepted into Wright State University and the pre-IT/Cybersecurity major. Once enrolled at Wright, students must complete CEG 2350 and MTH 2240/MTH 2280/CS 2200/EGR 1010 with a grade of “C” or higher as well as an overall GPA of 2.25 or higher to be fully admitted into the major. **Students should apply one semester prior to completing their CSCC degree to Wright State University** (priority application deadlines: April 1 for Fall; October 15 for Spring; and February 1 for summer).
- To graduate from Wright State, students must complete a minimum of 120 credit hours.
- **Wright State General Education:** The majority of courses required for the general education requirement for Wright State (the Wright State Core) will be met by course work completed as directed within the AAS Computer Science-Cybersecurity degree. If this course work is not completed at CSCC, students will need to complete whatever course work not completed at CSCC in addition to the course work outlined for the general education requirement in the plan above at Wright State.
- This degree is primarily offered only on Wright State’s campus in Dayton, Ohio. Some individual courses may be offered online, but the entire program is not available online.