

Wright State University

Information Technology and Cybersecurity Bachelor of Science

Effective beginning Academic Year 2024-25 (Last revised November 11, 2024)

The following table outlines how transfer credits will be applied to the Bachelor of Science in Information Technology degree at Wright State University for students who completed an Associate of Arts or Science degree via the Ohio Guaranteed Information Technology Transfer Pathway. The OGTP designation guarantees the transfer and applicability of credits, but does not guarantee admission to a program. Some bachelor-degree granting programs may be competitive, and students should check with individual institutions for their program admission requirements.

COURSE EQUIVALENCIES FROM THE ASSOCIATE DEGREE	Course Number	Credit Hours
GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36		
Any Ohio Transfer 36 approved First Writing (TME001) course	ENG 1100	3
Introductory Statistics (TMM010)	STT 2640	4
Any Ohio Transfer 36 approved Arts and Humanities course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Arts and Humanities course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Social and Behavioral Sciences course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Social and Behavioral Sciences course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Natural Sciences course with lab	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Natural Sciences course	Ohio Transfer 36 Elective*	3
Public Speaking (OCM013), Oral Communication (TMOC), or Second Writing (TME002) course	COM 1010 or ENG 2100	3
Ohio Transfer 36 approved courses ¹	Ohio Transfer 36 Electives*	9
PRE-MAJOR/BEGINNING MAJOR		
Introduction to Networking (CTIT002)	CEG 2400 (to be submitted) ²	3
Introduction to Cybersecurity (OIT005)	CEG 3400 (to be submitted) ²	3
Introduction to Programming (OIT001) ³	CS 1160 (to be submitted) ²	4
System Administration (OIT004)	CEG 2350, CEG 2410 (to be submitted) ²	4, 3
Introduction to Database Administration/Management (OIS001)	CS 3700 (to be submitted) ²	3
Introduction to Web Development (OIT003)	CS 2800 (to be submitted) ²	3
Information Technology/Information Systems Project Management (OIS003)	Elective*	3
OTHER RECOMMENDATIONS		
Electives [Recommended: Introduction to Geographic Information Systems (OSS051) or a course in Human Computer Interaction]	GEO 4430 or Varies*	4-5
TOTAL HOURS FROM ASSOCIATE DEGREE:		60-65
<p>Advising Notes:</p> <p>(*) Indicates that coursework will be evaluated for applicable equivalency upon transfer at the university. If a Transfer Assurance Guide (TAG) course is taken, the approved course equivalency will be awarded.</p> <p>¹ Students may complete Calculus I (TMM005), Discrete Mathematics (TMM023), or Life Science Calculus I (TMM024) as part of the associate degree program, or the additional mathematics course could be taken after transfer to Wright State University.</p> <p>² "Under review" or "to be submitted" indicates that the course does not currently carry the statewide course equivalency guarantee. However, the institution is working towards this goal and will act in good faith to ensure the appropriate equivalency is given that counts toward the degree.</p> <p>³ Students may complete Computer Science I (OCS001) equivalent in lieu of Introduction to Programming (OIT001) or CS 1160 equivalent.</p>		

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The following additional coursework will be required to complete the Bachelor of Science in Information Technology and Cybersecurity degree at Wright State University after a student has completed their Associate of Arts or Science Ohio Guaranteed Information Technology Transfer Pathway degree. Some bachelor-degree granting programs may be competitive and admission into the program is not guaranteed. Students should check with individual institutions for their program admission requirements.

REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE		Course Number	Credit Hours
Wright State Core Element 1 Communication:	Technical Communications for Engineers and Computer Scientists	EGR 3350	3
Wright State Core Element 2 Mathematics:	Select one: Applied Calculus, Business Calculus, Discrete Structures and Their Algorithms, Calculus 1, Discrete Mathematics (if not taken as part of the associate degree program)	MTH 2240, MTH 2280, CS 2200, MTH 2300, MTH 2570, or EGR 1010	0-4
Wright State Core Element 3 Global Traditions:	Technology and Society	CS 1000	3
Wright State Core Element 5 Natural Sciences:	Introduction to Computer Science	CS 1150	4
Required Computer Science Courses:	Mobile Application Development	CS 3170	3
Required Computer Engineering Courses:	Operating System Concepts and Usage and System Administration (Both courses (CEG 2350 and 2410) or their equivalents must be completed)	CEG 2350 and CEG 2410	0-7
Required Computer Engineering Courses:	Introduction to Digital Forensics	CEG 3410	3
Required Computer Engineering Courses:	Security Attacks and Defenses	CEG 4424	3
Required Computer Engineering Courses:	Cyber Network Security	CEG 4430	3
Required Computer Engineering Courses:	Team Projects I	CEG 4980	3
Required Computer Engineering Courses:	Team Projects II	CEG 4981	3
CS/CEG Electives:	CS/CEG Courses (At least 6 hours must be at the 4000 level; Computer Science II (OCS002) equivalent may be used to satisfy this requirement)	Varies	18
General Electives:	General Electives	Varies	0-2
REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE TOTAL: ¹			52-59
Advising Notes: ¹ Wright State University requires a total of 120 credit hours for degree completion. The total number of hours to complete a bachelor's degree represents a range of hours that may be needed depending on the individual course selections made during the associate degree program.			

COMPLETE BACHELOR'S DEGREE	Total Credit Hours
BACHELOR'S DEGREE TOTAL:	120

SPECIAL NOTES

For more information, please contact:
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SAMPLE DEGREE MAP

THIRD YEAR

SEMESTER 5		SEMESTER 6	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
CEG/CS Technical Elective	3	CEG/CS Technical Elective	3
CS 1000 Technology and Society	3	CEG 3410 Introduction to Digital Forensics	3
CS 1150 Introduction to Computer Science	4	CS 3170 Mobile Application Development	3
Wright State Core Element 2: Mathematics	4	EGR 3350 Technical Communications for Engineers and Computer Scientists	3
Total Semester 5 Credit Hours	14	Total Semester 6 Credit Hours	12

FOURTH YEAR

SEMESTER 7		SEMESTER 8	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
CEG 4424 Security Attacks and Defenses	3	CEG 4981 Team Projects II	3
CEG 4430 Cyber Network Security	3	CEG/CS 4000-level Technical Elective	3
CEG 4980 Team Projects I	3	CEG/CS Technical Elective	3
CEG/CS 4000-level Technical Elective	3	General Elective Credit	2
CEG/CS Technical Elective	3		
Total Semester 7 Credit Hours	15	Total Semester 8 Credit Hours	11