Computer Science
Bachelor of Science
EFFECTIVE BEGINNING ACADEMIC YEAR 2024-25

LAST REVISED: April 2, 2025

The following table outlines how transfer credits will be applied to the Bachelor of Science in Computer Science degree at Central State University for students who completed an Associate of Science degree via the Ohio Guaranteed Computer Science 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	4
Calculus I (TMM005)[1]	MTH 2502	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
General Chemistry I (OSC008) or Calculus-based Physics I (OSC016)	PHY 1110	3
Any Ohio Transfer 36 approved Natural Sciences course	Ohio Transfer 36 Elective*	3
Calculus II (TMM006)	MTH 2503	5
Any Ohio Transfer 36 approved Second Writing (TME002) course	ENG 1102	3
Ohio Transfer 36 approved courses [Recommended: Introduction to Ethics (OAH046) or Introduction to Logic (OAH061)]	Ohio Transfer 36 Electives*	3
PRE-MAJOR/BEGINNING MAJOR		
Discrete Mathematics (TMM023)	MTH 3610 (To be submitted)[2]	3
Computer Science I (OCS001)	CPS 1191 (To be submitted)[2]	4
Computer Science II (OCS002)	CPS 1192 (To be submitted)[2]	4
Data Structures (OCS003)	CPS 2271 (To be submitted)[2]	3
OTHER RECOMMENDATIONS		
Electives (Recommended: Introduction to Computer Science if offered, Elementary Linear Algebra (OMT019), and/or Computer Organization/Architecture))	Varies*	9-12
TOTAL HOURS FROM ASSOCIATE DEGREE:		**60-65**

Advising Notes:
Where it indicates "Any Ohio Transfer 36 approved," students should work closely with their advisors.
(+) indicates that the courses chosen should be from two different areas within that category.
(*) 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.
[1] A prerequisite may be needed for a student to reach Calculus I (TMM005).
[2] "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.

Transfer Credit Ohio

Ohio Guaranteed Transfer Pathways

CENTRAL STATE UNIVERSITY

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The following additional coursework will be required to complete the Bachelor of Science in Computer Science degree at Central State University after a student has completed an Associate of Science Ohio Guaranteed Computer Science 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
Major Requirement:	Computer Architecture	CPS 3340	3
Major Requirement:	Computer Algorithms	CPS 3200	3
Major Requirement:	Computer Networks	CPS 3316	3
Major Requirement:	Database Systems	CPS 3320	3
Major Requirement:	Operating Systems	CPS 3381	3
Major Requirement:	Artificial Intelligence	CPS 4210	3
Major Requirement:	Software Engineering	CPS 4420	3
Major Requirement:	Adv. Topics in Comp. Science	CPS 4460	3
Major Requirement:	Senior Project	CPS 4895	3
Major Requirement:	Probability & Statistics	MTH 2001	3
Major Requirement:	Numerical Methods	MTH 3310	3
Major Requirement:	Digital Systems	INT 3520	4
CPS Electives (Choose 2):	Internet Web Essentials Cyber Security I Cyber Security II Java Programming Programming Languages High Performance Computing Python Programming	CPS 2215 CPS 2300 CPS 3300 CPS 3325 CPS 3370 CPS 3465 CPS 3550	6
Electives:	From List B: Humanities	OT36 Elective	3
Electives:	From List C: Social Science	OT36 Elective	3
Electives:	From List D: Natural and Physical Sciences	OT36 Elective	6
Electives:	From List B, C, D, or STEM options	OT36 Elective	3
The Marauder Lifestyle:	Undergraduate Student Success Seminar I	USS 1001	1
The Marauder Lifestyle:	Undergraduate Student Success Seminar II	USS 1002	1
The Marauder Lifestyle:	Health and Wellness	HHP XXXX	1
REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE TOTAL:[1]			**61**

Advising Notes:
[1] Central State University requires 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**

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Ohio Guaranteed Transfer Pathways

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SPECIAL NOTES
For more information, please contact: Dr. Deng Cao, Chair and Professor, Computer Science dcao@centralstate.edu 937-376-6624

SAMPLE DEGREE MAP

THIRD YEAR

SEMESTER 5

COURSE NAME & NUMBER	CREDIT HOURS
CPS 3320 Database Systems	3
CPS 3340 Computer Architecture	3
INT 3520 Digital Systems	4
Health and Wellness (HHP)	1
USS1001 Undergraduate Student Success Seminar I	1
Elective	3
Total SEMESTER 5 Credit Hours	15

SEMESTER 6

COURSE NAME & NUMBER	CREDIT HOURS
MTH 2001 Probability & Statistics I	3
MTH 3310 Numerical Methods	3
CPS 3200 Computer Algorithms	3
CPS 3316 Computer Networks	3
CPS 3381 Operating Systems	3
USS 1002 Undergraduate Student Success Seminar II	1
Total SEMESTER 6 Credit Hours	16

FOURTH YEAR

SEMESTER 7

COURSE NAME & NUMBER	CREDIT HOURS
CPS 4420 Software Engineering	3
CPS 4460 Advanced Topics	3
Elective	3
Elective	3
Elective	3
Total SEMESTER 7 Credit Hours	15

SEMESTER 8

COURSE NAME & NUMBER	CREDIT HOURS
CPS 4210 Artificial Intelligence	3
CPS 4895 Senior Project	3
Elective	3
Elective	3
Elective	3
Total SEMESTER 8 Credit Hours	15