Transfer Credit Ohio

Ohio Guaranteed Transfer Pathways

CUYAHOGA COMMUNITY COLLEGE

Computer Science

Associate of Arts

EFFECTIVE BEGINNING ACADEMIC YEAR 2025-26

LAST REVISED: April 17, 2026

There are different computing disciplines: Computer Science emphasizes mathematical concepts related to designing new technology. Information Systems focuses on application of the information aspects of information technology, whereas Information Technology emphasizes the application of the technology itself more than the information it conveys.

Computer Science involves design and innovation developed from computing principles. It focuses on the theoretical foundations of computing, algorithms, and programming techniques, as applied to operating systems, artificial intelligence, informatics and other emerging areas. Computer scientists should be prepared to work in a broad range of positions involving tasks from theoretical work to software development. Computer science programs typically require significant mathematical background.

GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36		COURSE NUMBER	CREDIT HOURS
ENGLISH COMPOSITION AND ORAL COMMUNICATION			**3**
Course 1:	Any Ohio Transfer 36 approved First Writing (TME001) course	ENG 1010/101H	3
MATHEMATICS, STATISTICS, AND LOGIC			**5**
Course 1:	Calculus I (TMM005)[1]	MATH 1610/161H	5
ARTS AND HUMANITIES			**6**
+ Course 1:	Any Ohio Transfer 36 approved Arts and Humanities course	PHIL 2020/202H	3
+ Course 2:	Any Ohio Transfer 36 approved Arts and Humanities course	AH Elective (see page 4 for list)	3
SOCIAL AND BEHAVIORAL SCIENCES			**6**
+ Course 1:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course	SBS Elective (see page 5 for list)	3
+ Course 2:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course	SBS Elective (see page 5 for list)	3
NATURAL SCIENCES			**8-9**
Course 1:	General Chemistry I (OSC008) or Calculus-based Physics I (OSC016)[2]	CHEM 1300 & 130L/130H or PHYS 2310	5
Course 2:	Any Ohio Transfer 36 approved Natural Sciences course[2]	NS Elective (see page 6 for list)	3-4
ADDITIONAL CREDITS			**11**
Course 1:	Calculus II (TMM006)	MATH 1620/162H	5
Course 2:	Public Speaking (OCM013), Oral Communication (TMOC), or Second Writing (TME002) course	COMM 1010/101H	3
Course 3:	Ohio Transfer 36 approved elective [Recommended: Introduction to Ethics (OAH046) or Introduction to Logic (OAH061)]	ENG 1020/102H	3
GENERAL EDUCATION/OHIO TRANSFER 36 TOTAL:[3]			**39-40**

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.
[1] A prerequisite may be needed for a student to reach Calculus I (TMM005).
[2] The Ohio State University and Cleveland State University require Physics (OSC016). The University of Cincinnati requires Chemistry I (OSC008). Some institutions require a full-year sequence or both along with biology. Check with your academic advisor and your receiving institution to determine the appropriate science courses.
[3] Beginning in academic year 2029-2030, all bachelor-degree granting programs will require the successful completion of an American Civic Literacy course as a graduation requirement. Please work closely with your academic advisor to choose an approved course. See here for the list of approved American Civic Literacy courses.

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PRE-MAJOR/BEGINNING MAJOR		COURSE NUMBER	CREDIT HOURS
Course 1:	Discrete Mathematics (TMM023)	MATH 2010	4
Course 2:	Computer Science I (OCS001)	IT 1050/IT 1051	3
Course 3:	Computer Science II (OCS002)	IT 2650/IT 2651	3-4
Course 4:	Data Structures (OCS003)	IT 2660	4
PRE-MAJOR/BEGINNING MAJOR TOTAL:			**14-15**

OTHER RECOMMENDATIONS		COURSE NUMBER	CREDIT HOURS
Courses:	Electives [Recommended: Introduction to Computer Science if offered, Elementary Linear Algebra (OMT019), and/or Computer Organization/ Architecture][1]	IT 1025/IT 1026	3
		IT 2351/ IT 2352 (To be submitted)[2]	3-4
		MATH 2410, IT 2700, or IT 2310	3
OTHER RECOMMENDATIONS TOTAL:			**9-10**

Advising Notes:

[1] Additional recommended pre-major/major coursework is institution specific. Requirements vary by institution. Consult with your academic advisor and your receiving institution to determine an appropriate program of study.

[2] "To be submitted" indicates that this course does not yet carry that the statewide course equivalency guarantee. However, the institution is working towards this goal. Please consult with your institution's point of contact listed below for guidance on enrollment in this course.

ASSOCIATE DEGREE	Total Credit Hours
ASSOCIATE DEGREE TOTAL:	62-64

SPECIAL NOTES

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.

Some bachelor-degree granting institutions require additional general education courses outside of the Ohio Transfer 36 and students may be required to take these courses in their junior or senior year. Students will still be able to follow this pathway and complete their bachelor's degree in approximately 60 additional credit hours.

For more information, please contact:

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216-987-4677
https://www.tri-c.edu/it

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SAMPLE DEGREE MAP

FIRST YEAR

SEMESTER 1

COURSE NAME & NUMBER	CREDIT HOURS
ENG 1010/101H College Composition I/ Honors	3
GEN 1070 First Year Success Seminar (if needed)	0-1
IT 1025 Information Technology Concepts for Programmers/ IT 1026 Introduction to Computing	3
IT 1050 Programming Logic/ IT 1051 Intro to Logic Programming	3
MATH 1610/161H Calculus I/Honors	5
Total *SEMESTER 1* Credit Hours	14-15

SEMESTER 2

COURSE NAME & NUMBER	CREDIT HOURS
ENG 1020/102H College Composition II/ Honors	3
Ohio Transfer 36 Social & Behavioral Sciences Elective	3
IT 2650 Java Programming/ IT 2651 Object-Oriented Programming	3-4
MATH 1620/162H Calculus II/Honors	5
IT 2700 Systems Analysis and Design, or IT-2310 Web Programming, or 2351 Enterprise Database Systems/ IT-2352 Database Systems	3
Total *SEMESTER 2* Credit Hours	17-18

SECOND YEAR

SEMESTER 3

COURSE NAME & NUMBER	CREDIT HOURS
IT 2660 Data Structures and Algorithims	4
MATH 2010 Introduction to Discrete Mathematics	4
COMM 1010/101H Speech Communications/ Honors	3
CHEM 1300/130H General Chemistry I/ Honors, CHEM 130L General Chemistry Laboratory I, or PHYS 2310 General Physics I	5
Total *SEMESTER 3* Credit Hours	16

SEMESTER 4

COURSE NAME & NUMBER	CREDIT HOURS
MATH 2410 Introduction to Linear Algebra (if needed)	0-3
Ohio Transfer 36 Arts & Humanities Elective	3
Ohio Transfer 36 Natural Sciences Elective	3
Ohio Transfer 36 Social & Behavioral Sciences Elective	3
PHIL 2020/202H Ethics /Honors	3
Total *SEMESTER 4* Credit Hours	12-15

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OHIO TRANSFER 36 ELECTIVES

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ARTS AND HUMANITIES	Course Number	Credit Hours
Art Appreciation	ART 1010	3
Survey of Non-Western Art	ART 1040	3
Art History Survey: Prehistoric to Renaissance	ART 2020/202H	3
Art History Survey: Late Renaissance to Present	ART 2030/203H	3
Dance Appreciation	DANC 1100	3
Women Writers on the Experiences of Women	ENG 2020	3
American Literature I	ENG 2310	3
American Literature II	ENG 2320	3
British Literature I	ENG 2350	3
British Literature II	ENG 2360	3
Introduction to Literature: Poetry	ENG 2410	3
Introduction to Literature: Fiction	ENG 2420	3
Introduction to Literature: Drama	ENG 2430	3
Introduction to Literature: Science Fiction	ENG 2450	3
African-American Literature I	ENG 2510	3
African-American Literature II	ENG 2520	3
Literature for Children & Adolescents	ENG 2601	3
World Literature	ENG 2700	3
Shakespeare	ENG 2710	3
Exploration of World Mythology	ENG 2730	3
Rhetorics of Gaming: Introduction to Video Game Analysis	ENG 2770	3
Islam to the Modern Middle East	HIST 2031	3
African American History to 1877	HIST 2150	3
African American History 1877-Present	HIST 2160	3
Hitler and the Holocaust	HIST 2520	3
Women in American History	HIST 2660	3

ARTS AND HUMANITIES, CONTINUED	Course Number	Credit Hours
Introduction to Humanities	HUM 1010	3
The Individual Society	HUM 1020/102H	3
Community Engagement Through the Humanities	HUM 2020	3
Culture and Belief	HUM 2030	3
Film Appreciation	MJS 1310	3
Survey of European Classical Music	MUS 1010	3
Survey of Jazz	MUS 1020	3
Survey of Rock and Roll	MUS 1030	3
Survey of African-American Music	MUS 1040	3
Survey of World Music	MUS 1050	3
Jazz History	MUS 2541	3
Critical Thinking	PHIL 1000	3
Introduction to Philosophy	PHIL 1010/101H	3
Ethics	PHIL 2020/202H	3
Bioethics	PHIL 2050/205H	3
Business Ethics	PHIL 2060	3
Honors Social Justice	PHIL 208H	3
Introduction to Religious Studies	REL 1010	3
Comparative World Religions	REL 2000	3
Religious Traditions of Western Christianity	REL 2010	3
African-American Religious Experience	REL 2060	3
Theatre Appreciation	THEA 1010	3
History of Theatre and Drama I	THEA 2210	3
History of Theatre and Drama II	THEA 2220	3

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OHIO TRANSFER 36 ELECTIVES

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SOCIAL AND BEHAVIORAL SCIENCES	Course Number	Credit Hours
Cultural Anthropology	ANTH 1010	3
Peoples and Cultures of the World	ANTH 2010	3
Archaeology	ANTH 2110	3
Survey of Economics	ECON 1210	3
Principles of Microeconomics	ECON 2000	3
Principles of Macroeconomics	ECON 2010	3
Introduction to Geography	GEOG 1000	3
World Regional Geography	GEOG 1010	3
Africans in the Americas	GEOG 1050	3
Regional Geography of the US & Canada	GEOG 1510	3
Environmental Geography	GEOG 2030	3
History of Civilization I	HIST 1010/101H	3
History of Civilization II	HIST 1020/102H	3
United States History to 1877	HIST 1510/151H	3
United States History Since 1877	HIST 1520/152H	3
History of Africa	HIST 1700	3
History of Modern Africa	HIST 2700	3
American National Government	POL 1010/101H	3
State and Local Government	POL 1020	3
Introduction to Conflict and Peace Studies	POL 2020	3
Comparative Politics	POL 2030	3
Political Systems of Africa	POL 2060	3
International Relations	POL 2070	3
Constitutional Law	POL 2100	3
Women and Politics	POL 2120	3
General Psychology	PSY 1010/101H	3
Intro to Industrial/Organizational Psych	PSY 1050	3
Child Growth and Development	PSY 2010	3

SOCIAL AND BEHAVIORAL SCIENCES, CONTINUED	Course Number	Credit Hours
Life Span Development	PSY 2020/202H	3
Social Psychology	PSY 2040	3
Psychology of Personality	PSY 2050	3
Adolescent Psychology	PSY 2060	3
Psychopathology	PSY 2081	3
Introduction to Aging	PSY 2100	3
Educational Psychology	PSY 2110	3
Introductory Sociology	SOC 1010/101H	3
Social Institutions	SOC 1020	3
Social Problems	SOC 2010/201H	3
Sociology of the Family	SOC 2020	3
Aging and Society	SOC 2100	3
Death and Dying	SOC 2110	3
Introduction to Criminology	SOC 2160	3
Sociology of Gender	SOC 2410	3
Race and Ethnic Relations	SOC 2550	3
Introduction to Urban Studies	UST 1010	3
Introduction to Women's Studies	WGS 1510/151H	3
Women in the World	WGS 2010/201H	3
Women and Politics	WGS/POL 2120	3

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NATURAL SCIENCES	Course Number	Credit Hours
Human Evolution*	ANTH 1210*	4
The Cell and DNA*	BIO 1040*	3
The Cell and DNA Laboratory*	BIO 104L*	1
Human Biology*	BIO 1050*	3
Human Biology Laboratory*	BIO 105L*	1
Environment, Ecology, & Evolution*	BIO 1060*	3
Environment, Ecology, & Evolution Lab*	BIO 106L*	1
Insect Biology	BIO 1070	3
Introduction to Biological Chemistry*	BIO 1100*	3
Principles of Biology I*	BIO 1500/150H*	4
Principles of Biology II*	BIO 1510/151H*	4
Principles of Genetics	BIO 2060	3
Environmental Science	BIO 2150	3
Microbiology*	BIO 2500*	4
Everyday Chemistry	CHEM 1000	3
Everyday Chemistry Laboratory*	CHEM 100L*	1
Introduction to Inorganic Chemistry*	CHEM 1010/101H*	4
Intro to Organic Chem and Biochem*	CHEM 1020/102H*	4
General Chemistry I	CHEM 1300	4
Honors General Chemistry I*	CHEM 130H*	5
General Chemistry I Laboratory*	CHEM 130L*	1
General Chemistry II*	CHEM 1310/131H*	4
General Chemistry II Laboratory*	CHEM 131L*	1

NATURAL SCIENCES, CONTINUED	Course Number	Credit Hours
Earth	ESCI 1030	3
Earth Laboratory*	ESCI 103L*	1
Introduction to Ocean Studies	ESCI 1050	3
Physical Geography	ESCI 1310	3
Laboratory in Physical Geography*	ESCI 131L*	1
Physical Geology	ESCI 1410	3
Laboratory in Physical Geology	ESCI 141L	1
Geology of the National Parks	ESCI 1610	3
Lab in Geology of the National Parks*	ESCI 161L*	1
Astronomy	PHYS 1010	3
Astronomy Laboratory*	PHYS 101L*	1
College Physics I*	PHYS 1210*	4
College Physics II*	PHYS 1220*	4
General Physics I*	PHYS 2310*	5
General Physics II*	PHYS 2320*	5

Advising Note:
* Please see Tri-C catalog for approved modalities.