

Mathematics

Associate of Science to Bachelor of Science

Effective beginning Academic Year 2019-20 (Last revised July 21, 2021)

GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36		Course Number	Credit Hours
ENGLISH COMPOSITION AND ORAL COMMUNICATION:			3-4
Course 1:	Any Ohio Transfer 36 approved First Writing (TME001) course	ENG 101 or ENG 101A	3-4
MATHEMATICS, STATISTICS, AND LOGIC:			5
Course 1:	Calculus I (TMM005) ¹	MAT 251	5
ARTS AND HUMANITIES:			6
+ Course 1:	Any Ohio Transfer 36 approved Arts and Humanities course	LIT 210, LIT 285, or REL 105 ³	3
+ Course 2:	Any Ohio Transfer 36 approved Arts and Humanities course	ART 111, ART 112, MUS 101, or MUS 102 ³	3
SOCIAL AND BEHAVIORAL SCIENCES:			6
+ Course 1:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course	HST 111, HST 112, or POL 101 ³	3
+ Course 2:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course	PSY 110 or SOC 105	3
NATURAL SCIENCES:			10
Course 1:	Calculus-based Physics I with lab (OSC016)	PHY 201	5
Course 2:	Calculus-based Physics II with lab (OSC017) or any OTM approved Natural Sciences course	PHY 202	5
ADDITIONAL CREDITS: ²			11
Course 1:	Any Ohio Transfer 36 approved Second Writing (TME002) course	ENG 102 or ENG 103	3
Course 2:	Calculus II (TMM006)	MAT 252	5
Course 3:	Up to 3 additional hours of Ohio Transfer 36 approved courses	COMM 110 (required)	3
GENERAL EDUCATION/OHIO TRANSFER 36 TOTAL:			41-42
<p>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, such as College Algebra (TMM001), may be needed for a student to reach Calculus I (TMM005). ² Due to the variability across institutions, students should work with their academic advisor to determine an appropriate program of study and appropriate amount of additional credits to satisfy the Ohio Transfer 36. ³ Other elective choices may be available. Please consult with an advisor.</p>			

SPECIAL NOTES

Students with plans of pursuing a pre-professional or graduate studies track in the future should work closely with their academic advisor and receiving institution starting in the first year of their program in order to adequately prepare themselves for those types of tracks. Some pre-professional degrees include pre-medicine, pre-veterinary, pre-law, and pre-dentistry.

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PRE-MAJOR/BEGINNING MAJOR		Course Number	Credit Hours
Course 1:	Calculus III (OMT018)	MAT 253	5
Course 2:	Elementary Linear Algebra (OMT019)	Course sharing (see last page)	3
Course 3:	Elementary Differential Equations (OMT020)	Course sharing (see last page)	3
PRE-MAJOR/BEGINNING MAJOR TOTAL:			11

OTHER REQUIREMENTS		Course Number	Credit Hours
Graduation Requirements for Cincinnati State:	First Year Experience	FYE 100, FYE 105, or FYE 110	1-3
	Career Exploration Seminar	HUM 190	2
	Co-operative Education Experience	HUM 191, HUM 291, or HUM 296 ²	2
Electives:	General Electives ¹	In consultation with advisor	5-7
OTHER REQUIREMENTS TOTAL:³			12

Advising Notes:

¹ Certain institutions may require two semesters or more of foreign language for Bachelor of Arts and Bachelor of Science degrees. If so, foreign language should be taken – check with your receiving institution. Additional recommended pre-major/major coursework may include a course in programming or proofs. Consult with your academic advisor and your receiving institution to determine an appropriate program of study.

² Other elective choices may be available. Please consult with an advisor.

³ Cincinnati State requires a minimum of 64 hours to earn an Associate of Science degree.

ASSOCIATE DEGREE	Total Credit Hours
ASSOCIATE DEGREE TOTAL:	64-65

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 additional information, please contact:

Humanities and Science Division, Associate of Science Degree
(513) 569-1700

<https://www.cincinnati-state.edu/academics/degrees-and-certificates/associate-of-science>

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SAMPLE DEGREE MAP

FIRST YEAR

SEMESTER 1		SEMESTER 2	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
FYE 100, FYE 105, or FYE 110 First Year Experience Course	1-3	ENG 102 English Composition 2: Contemporary Issues or ENG 103 English Composition 2: Writing about Literature	3
ENG 101 or ENG 101A English Composition 1	3-4	HUM 190 Career Exploration Seminar: Associate of Arts/Associate of Science	2
MAT 251 Calculus 1	5	MAT 252 Calculus 2	5
Ohio Transfer 36 Arts and Humanities Elective	3	Ohio Transfer 36 Arts and Humanities Elective	3
Ohio Transfer 36 Social and Behavioral Sciences Elective	3	Ohio Transfer 36 Social and Behavioral Sciences Elective	3
Total Semester 1 Credit Hours	15-18	Total Semester 2 Credit Hours	16

SECOND YEAR

SEMESTER 3		SEMESTER 4	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
COMM 110 Public Speaking	3	Differential Equations - GC3 Course	3
MAT 253 Calculus 3	5	PHY 202 Physics 2: Calculus-Based	5
Linear Algebra - GC3 Course	3	Elective	2-3
PHY 201 Physics 1: Calculus-Based	5	Elective	3-4
Part Time Co-op	1	Part Time Co-op	1
Total Semester 3 Credit Hours	17	Total Semester 4 Credit Hours	14-16



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NOTES

Please work closely with your advisor.

Course Sharing: Geography courses in this pathway not offered by Cincinnati State are available through the Greater Cincinnati Connection (GC3), and may be taken at one of the following Ohio public institutions:

Elementary Linear Algebra (OMT019)

University of Cincinnati: MATH2076

Miami University: MTH222

Elementary Differential Equations (OMT020)

University of Cincinnati: MATH2073

Miami University: MTH245