



Transfer Credit Ohio

Ohio Guaranteed Transfer Pathways

SINCLAIR COLLEGE

Physics Associate of Science

EFFECTIVE BEGINNING ACADEMIC YEAR 2024-25

LAST REVISED: March 17, 2025

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 1101	3
MATHEMATICS, STATISTICS, AND LOGIC			5
Course 1:	Calculus I (TMM005) ¹	MAT 2270	5
ARTS AND HUMANITIES			6
+ Course 1:	Any Ohio Transfer 36 approved Arts and Humanities course	HIS 1112	3
+ Course 2:	Any Ohio Transfer 36 approved Arts and Humanities course	ART 1110	3
SOCIAL AND BEHAVIORAL SCIENCES			6
+ Course 1:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course	PLS 1120	3
+ Course 2:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course	PSY 1100	3
NATURAL SCIENCES			10
Course 1:	Calculus-Based Physics I with lab (OSC016)	PHY 2201/2207	5
Course 2:	Calculus-Based Physics II with lab (OSC017)	PHY 2202/2208	5
ADDITIONAL CREDITS ²			10
Course 1:	Calculus II (TMM006)	MAT 2280	5
Course 2:	General Chemistry I with lab (OSC008)	CHE 1211/1251	5
GENERAL EDUCATION/OHIO TRANSFER 36 TOTAL:			40
<p>Advising Notes:</p> <p>Where it indicates "Any Ohio Transfer 36 approved," students should work closely with their advisors.</p> <p>(+) indicates that the courses chosen should be from two different areas within that category.</p> <p>¹ A prerequisite may be needed for a student to reach Calculus I (TMM005).</p> <p>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.</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 2290	5
Course 2:	Elementary Linear Algebra (OMT019)	MAT 2320	3
Course 3:	Elementary Differential Equations (OMT020)	MAT 2310	4
PRE-MAJOR/BEGINNING MAJOR TOTAL:			12

OTHER RECOMMENDATIONS		COURSE NUMBER	CREDIT HOURS
Electives:	General Electives as needed (May include FYE or Orientation course) ¹	CHE 1221/1261	5
		COMM 2211	3
		SOC 1145	3
OTHER RECOMMENDATIONS TOTAL: ³			11

Advising Notes:

¹ Certain institutions may require two semesters or more of world language for Bachelor of Arts and Bachelor of Science degrees. If so, a world language should be taken – check with your receiving institution. Additional recommended pre-major/major coursework is institution specific and might include an appropriate course in programming or modern physics (may not be offered by most two-year institutions). Different tracks for bachelor's degree programs may require complementary science courses, such as Biology. Chemistry may be required for students interested in teaching. Consult with your academic advisor and your receiving institution to determine an appropriate program of study.

ASSOCIATE DEGREE	Total Credit Hours
ASSOCIATE DEGREE TOTAL:	63

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:

Academic Advising

academicadvising@sinclair.edu

(937) 512-3700



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SAMPLE DEGREE MAP

FIRST YEAR

SEMESTER 1		SEMESTER 2	
COURSE NAME & NUMBER	CREDIT HOURS	COURSE NAME & NUMBER	CREDIT HOURS
MAT 2270 Calculus & Analytical Geometry I	5	MAT 2280 Calculus & Analytical Geometry II	5
CHE 1211/1251 General Chemistry I with Lab	5	PHY 2201/2207 General Physics I with Lab	5
ENG 1101 English Composition I	3	CHE 1221/1261 General Chemistry II with Lab	5
PLS 1120 American Federal Government	3		
Total SEMESTER 1 Credit Hours	16	Total SEMESTER 2 Credit Hours	15

SECOND YEAR

SEMESTER 3		SEMESTER 4	
COURSE NAME & NUMBER	CREDIT HOURS	COURSE NAME & NUMBER	CREDIT HOURS
MAT 2290 Calculus & Analytical Geometry III	5	ART 1110 Art Appreciation	3
PHY 2202/2208 General Physics II with Lab	5	COM 2211 Effective Public Speaking	3
PSY 1100 General Psychology	3	MAT 2320 Linear Algebra	3
HIS 1112 Western Civilization II	3	SOC 1145 Cultural Anthropology	3
		MAT 2310 Elementary Differential Equations	4
Total SEMESTER 3 Credit Hours	16	Total SEMESTER 4 Credit Hours	16