

Physics

Associate of Science

Effective beginning Academic Year 2020-21 (Last revised March 4, 2020)

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	ENGL 1100	3
MATHEMATICS, STATISTICS, AND LOGIC:			5
Course 1:	Calculus I (TMM005) ¹	MATH 1151	5
ARTS AND HUMANITIES:			6
+ Course 1:	Any Ohio Transfer 36 approved Arts and Humanities course	HIST 1111, HIST 1181, or HIST 2223	3
+ Course 2:	Any Ohio Transfer 36 approved Arts and Humanities course	CLAS 1222, ENGL 2201, ENGL 2240, ENGL 2274, or PHIL 1101	3
SOCIAL AND BEHAVIORAL SCIENCES:			6
+ Course 1:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course	ECON 2200, GEOG 2750, or POLS 1100	3
+ Course 2:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course	PSY 1100, ANTH 2201, or SOC 1101	3
NATURAL SCIENCES:			10
Course 1:	Calculus-Based Physics I with lab (OSC016)	PHYS 1250	5
Course 2:	Calculus-Based Physics II with lab (OSC017)	PHYS 1251	5
ADDITIONAL CREDITS: ²			10
Course 1:	Calculus II (TMM006)	MATH 1152	5
Course 2:	General Chemistry I with lab (OSC008)	CHEM 1171	5
GENERAL EDUCATION/OHIO TRANSFER 36 TOTAL:			40
<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.</p>			

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PRE-MAJOR/BEGINNING MAJOR		Course Number	Credit Hours
Course 1:	Calculus III (OMT018)	MATH 2153	5
Course 2:	Elementary Linear Algebra (OMT019)	MATH 2568	4
Course 3:	Elementary Differential Equations (OMT020)	MATH 2255	4
PRE-MAJOR/BEGINNING MAJOR TOTAL:			13

OTHER REQUIREMENTS		Course Number	Credit Hours
Course 1:	General Chemistry II with lab (OSC009) (if not taken as part of the Ohio Transfer 36)	CHEM 1172	5
Electives:	General Electives as needed (May include FYE or Orientation course) ¹	ENGL 2767	3
		COLS 1100	1
OTHER REQUIREMENTS TOTAL:			9

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 is institution specific and might include an appropriate course in programming or modern physics (may not be offered by most two-year institutions). Consult with your academic advisor and your receiving institution to determine an appropriate program of study.

ASSOCIATE DEGREE	Total Credit Hours
ASSOCIATE DEGREE TOTAL:	62

SPECIAL NOTES
<p>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.</p> <p>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.</p> <p>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.</p> <p>For more information, please contact: Arts & Sciences Advising asadvising@csc.edu https://www.csc.edu/services/advising/arts-sciences-advisors.shtml</p>

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SAMPLE DEGREE MAP

FIRST YEAR

SEMESTER 1		SEMESTER 2	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
COLS 1100 First Year Seminar	1	ENGL 2767 Composition II: Writing About Science/Technology	3
ENGL 1100 Composition I	3	MATH 1152 Calculus II	5
MATH 1151 Calculus I	5	CHEM 1172 General Chemistry II	5
ECON 2200 Principles of Microeconomics, GEOG 2750 World Regional Geography, or POLS 1100 Intro to American Government	3	HIST 1111 European History to 1648, HIST 1181 World Civilization I to 1500, or HIST 2223 African-American History I to 1877	3
CHEM 1171 General Chemistry I	5		
Total Semester 1 Credit Hours	17	Total Semester 2 Credit Hours	16

SECOND YEAR

SEMESTER 3		SEMESTER 4	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
MATH 2153 Calculus III	5	MATH 2255 Elementary Differential Equations	4
PHYS 1250 Calculus-Based Physics I	5	MATH 2568 Linear Algebra	4
PSY 1100 Introduction to Psychology, ANTH 2201 World Prehistory, or SOC 1101 Introduction to Sociology	3	PHYS 1251 Calculus-Based Physics II	5
CLAS 1222 Classical Mythology, ENGL 2201 British Literature I, ENGL 2240 Intro to Science Fiction, ENGL 2274 Intro to Non-Western Literature, or PHIL 1101 Intro to Philosophy	3		
Total Semester 3 Credit Hours	16	Total Semester 4 Credit Hours	13