

Chemistry Associate of Science

Effective beginning Academic Year 2019-20 (Last revised July 13, 2021)

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 161	3
MATHEMATICS, STATISTICS, AND LOGIC:			5
Course 1:	Calculus I (TMM005) ¹	MTHM 181	5
ARTS AND HUMANITIES:			6
+ Course 1:	Any Ohio Transfer 36 approved Arts and Humanities course	HUMS 151G	3
+ Course 2:	Any Ohio Transfer 36 approved Arts and Humanities course	PHLY 151G or PHLY 161	3
SOCIAL AND BEHAVIORAL SCIENCES:			6
+ Course 1:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course	PSYH 151	3
+ Course 2:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course	SOCY 151G	3
NATURAL SCIENCES:			10
Course 1:	General Chemistry I with lab (OSC008)	CHMY 171	5
Course 2:	General Chemistry II with lab (OSC009)	CHMY 172	5
ADDITIONAL CREDITS: ²			12
Course 1:	Any Ohio Transfer 36 approved Second Writing (TME002) course	ENGL 162	3
Course 2:	Calculus II (TMM006)	MTHM 182	5
Course 3:	Up to 3-4 additional hours of Ohio Transfer 36 approved courses	MTHM 281	4
GENERAL EDUCATION/OHIO TRANSFER 36 TOTAL:			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.</p>			

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PRE-MAJOR/BEGINNING MAJOR		Course Number	Credit Hours
Course 1:	Calculus-based Physics I with lab (OSC016) ¹	PHYC 251	5
Course 2:	Calculus-based Physics II with lab (OSC017) ¹	PHYC 252	5
Course 3:	Full-Year Sequence of Organic Chemistry with lab (OSC010) ²	CHMY 271 and CHMY 272	10
PRE-MAJOR/BEGINNING MAJOR TOTAL:			20
Advising Notes: ¹ Algebra-based Physics I and II (OSC014 and OSC015) may be accepted. Please check with your receiving institution. ² The statewide transfer guarantee applies to the full-year sequence. All non-sequence coursework will be reviewed on a course-by-course basis by the receiving institution for transfer and application to the major.			

OTHER REQUIREMENTS		Course Number	Credit Hours
Electives:	General Electives as needed (May include FYE or Orientation course) ¹	SDEV 101	1
OTHER REQUIREMENTS TOTAL:			1
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. Additional recommended coursework includes Calculus III (OMT018) or Elementary Differential Equations (OMT020). For students interested in biochemistry or pre-medicine, biology courses are recommended. Please work with your academic advisor and your receiving institution to determine an appropriate course of study.			

ASSOCIATE DEGREE	Total Credit Hours
ASSOCIATE DEGREE TOTAL:	63

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: Lauren Bieler, Academic Advisor (440) 366-4798 lbieler@lorainccc.edu</p>

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SAMPLE DEGREE MAP

FIRST YEAR

SEMESTER 1		SEMESTER 2	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
CHMY 171 General Chemistry	5	CHMY 172 General Chemistry II	5
ENGL 161 College Composition	3	ENGL 162 College Composition II	3
MTHM 181 Calculus I	5	MTHM 182 Calculus II	5
SOCY 151G Introduction to Sociology	3	PSYH 151 Introduction to Psychology	3
SDEV 101 College 101	1		
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
CHMY 271 Organic Chemistry I	5	CHMY 272 Organic Chemistry II	5
PHYC 251 College Physics I	5	PHYC 252 College Physics II	5
MTHM 281 Multivariable Calculus	4	PHLY 151G Introduction to Philosophy or PHLY 161 Introduction to Ethics	3
		HUMS 151G Introduction to Humanities	3
Total Semester 3 Credit Hours	14	Total Semester 4 Credit Hours	16