

Chemistry 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	Historical Study Elective (see last page for list)	3
+ Course 2:	Any Ohio Transfer 36 approved Arts and Humanities course	AH Elective (outside of HIST- see last page for list)	3
SOCIAL AND BEHAVIORAL SCIENCES:			6
+ Course 1:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course	SBS Elective (see last page for list)	3
+ Course 2:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course	SBS Elective (see last page for list)	3
NATURAL SCIENCES:			10
Course 1:	General Chemistry I with lab (OSC008)	CHEM 1171	5
Course 2:	General Chemistry II with lab (OSC009)	CHEM 1172	5
ADDITIONAL CREDITS: ²			8
Course 1:	Any Ohio Transfer 36 approved Second Writing (TME002) course	ENGL 2767	3
Course 2:	Calculus II (TMM006)	MATH 1152	5
GENERAL EDUCATION/OHIO TRANSFER 36 TOTAL:			38
<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	PHYS 1250	5
Course 2:	Calculus-based Physics II with lab (OSC017) ¹	PHYS 1251	5
Course 3:	Full-Year Sequence of Organic Chemistry with lab (OSC010) ²	CHEM 2251, CHEM 2254, CHEM 2252, and CHEM 2255	16
PRE-MAJOR/BEGINNING MAJOR TOTAL:			26
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	COLS 1100	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:	65

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	CHEM 1172 General Chemistry II	5
ENGL 1100 Composition I	3	Ohio Transfer 36 Social and Behavioral Sciences	3
MATH 1151 Calculus I	5	ENGL 2767 Composition II: Writing About Science/Technology	3
Ohio Transfer 36 Arts and Humanities (Historical Study)	3	MATH 1152 Calculus II	5
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
Ohio Transfer 36 Arts and Humanities (outside of HIST)	3	PHYS 1251 Calculus-Based Physics II	5
CHEM 2251 Organic Chemistry I	5	CHEM 2252 Organic Chemistry II	5
CHEM 2254 Organic Chemistry I Lab	3	CHEM 2255 Organic Chemistry II Lab	3
PHYS 1250 Calculus-Based Physics I	5	Ohio Transfer 36 Social and Behavioral Sciences	3
Total Semester 3 Credit Hours	16	Total Semester 4 Credit Hours	16

OHIO TRANSFER 36 ELECTIVES

Please work closely with your advisor when selecting courses.

ARTS AND HUMANITIES	Course Number	Credit Hours
HISTORICAL STUDY		
European History to 1648	HIST 1111	3
European History Since 1648	HIST 1112	3
American History to 1877	HIST 1151	3
American History Since 1877	HIST 1152	3
World Civ I Non Western to 1500	HIST 1181	3
World Civ II Non Western Since 1500	HIST 1182	3
African-American History I	HIST 2223	3
African-American History II	HIST 2224	3
LITERATURE		
Classical Mythology	CLAS 1222	3
British Literature I	ENGL 2201	3
British Literature II	ENGL 2202	3
Introduction to Shakespeare	ENGL 2220	3
Introduction to Science Fiction	ENGL 2240	3
Introduction to Poetry	ENGL 2260	3
Intro to Nonwestern Literature	ENGL 2274	3
Women in Literature	ENGL 2276	3
The English Bible as Literature	ENGL 2280	3
African American Literature	ENGL 2281	3
U.S. Literature I	ENGL 2290	3
U.S. Literature II	ENGL 2291	3
Intro to Dramatic Literature	THEA 2230	3
CULTURES & IDEAS		
Classical Civilization: Greece	CLAS 1222	3
Classical Civilization: Rome	CLAS 1225	3
Classical Civilization: Byzantium	CLAS 1226	3
Intro to Folklore	ENGL 2270	3
Comparative Religions	HUM 1270	3
Intro to Philosophy	PHIL 1101	3
Ethics	PHIL 1130	3
Philosophy of Religion	PHIL 2270	3
VISUAL/PERFORMING ARTS		
History of Art I	HART 1201	3
History of Art II	HART 1202	3
World Cinema	HART 1260	3
Music & Art Since 1945	HUM 1160	3
Survey of Music History	MUS 1251	3
Introduction to Theatre	THEA 1100	3

SOCIAL AND BEHAVIORAL SCIENCES	Course Number	Credit Hours
INDIVIDUALS & GROUPS		
World Prehistory	ANTH 2201	3
People & Culture	ANTH 2202	3
Introduction to Psychology	PSY 1100	3
Child Development	PSY 2261	3
Sociology of Deviance	SOC 2210	3
American Race & Ethnic Relations	SOC 2380	3
ORGANIZATIONS & POLITICS		
Principles of Macroeconomics	ECON 2201	3
Intro to American Government	POLS 1100	3
Comparative Politics	POLS 1200	3
Introduction to Sociology	SOC 1101	3
Intro to Rural Sociology	SOC 1500	3
HUMAN, NATURAL & ECONOMIC RESOURCES		
Principles of Microeconomics	ECON 2200	3
World Regional Geogaphy	GEOG 2750	3
Economics & Social Geography	GEOG 2400	3
International Relations	POLS 1300	3