



Chemistry A.S.

Curriculum Code: 0117

Effective: Fall 2019 – Summer 2024

Description

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Contact the Science Department in the Arts & Sciences Building, Room 3203, telephone number 517-483-1092 or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

General Education MTA Courses, Recommended Choices

(For the full list of options, see [Michigan Transfer Agreement](#))

- English Composition – *Select one*
ENGL 121, Composition I, 4 credits / 4 billing hours
ENGL 131, Honors Composition I, 4 credits / 4 billing hours
- English Composition (second course) or Communication – *Select one*
ENGL 122, Composition II, 4 credits / 4 billing hours
ENGL 132, Honors Composition II, 4 credits / 4 billing hours
- Humanities and Fine Arts – *Select two, each from a different discipline*
HIST 212, U.S. History: 1877 to Present, 4 credits / 4 billing hours
HUMS 213, World Civilizations to 1600, 4 credits / 4 billing hours
HUMS 214, World Civilizations from 1600, 4 credits / 4 billing hours
PHIL 151, Intro to Logic & Critical Think, 4 credits / 4 billing hours
PHIL 152, Introduction to Ethics, 4 credits / 4 billing hours
RELG 150, Intro to World Religions, 4 credits / 4 billing hours
- Mathematics
Program of Study Required Courses fulfills this requirement
- Natural Sciences – *Select one from a discipline other than CHEM*
BIOL 127, Cell Biology, 4 credits / 6 billing hours

- Social Science – *Select two, each from a different discipline*
 ANTH 270, Cultural Anthropology, 3 credits / 3 billing hours
 POLS 120, American Political System, 4 credits / 4 billing hours
 PSYC 200, Introduction to Psychology, 4 credits / 4 billing hours
 SOCL 120, Introduction to Sociology, 4 credits / 4 billing hours

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 152	General Chemistry Lecture II	3 / 3
CHEM 161	General Chemistry Lab I	1 / 3
CHEM 162	General Chemistry Lab II	1 / 3
CHEM 251	Organic Chemistry Lecture I	4 / 4
CHEM 252	Organic Chemistry Lecture II	4 / 4
CHEM 262	Quantitative Analysis	3 / 6
CHEM 272	Organic Chemistry Laboratory	2 / 6
MATH 151	Calculus I	4 / 4
MATH 152	Calculus II	4 / 4

Elective Courses, Recommended Choices – *Select courses to reach the minimum 60 total credits required for this degree.* (For the full list of options, see [AA and AS Degree Electives](#))

Course Code	Course Title	Credit / Billing Hours
ISCI 245	S.T.E.M. Workplace Practices	4 / 6
MATH 253	Calculus III	4 / 4
MUSC 108	Concert Choir	1 / 3
MUSC 122	Rock Band	1 / 3
MUSC 123	Jazz Ensemble	1 / 3
MUSC 124	Multi-Instrumental Music Ensemble	1 / 3
PHYS 251	Physics I with Calculus	5 / 7
PHYS 252	Physics II with Calculus	5 / 7

Total Credit Hours

60-63 credits / 74-78 billing hours

Recommended Course Sequence

Semester I	Semester II
MTA English Composition	MTA English Comp (2nd course) or Communication
MTA Social Science	MTA Humanities and Fine Arts
CHEM 151	CHEM 152
CHEM 161	CHEM 162
MATH 151	MATH 152

Semester III	Semester IV
MTA Natural Science MTA Social Science CHEM 251 CHEM 262 Elective	MTA Humanities and Fine Arts CHEM 252 CHEM 272 Elective