



Associate of Science, Chemistry

Bachelor's Degree Transfer Major

2018–2019

DESCRIPTION:

The Associate of Science degree is designed to satisfy the first two years of a bachelor's degree in majors that require advanced math or science. Formal agreements have been made with colleges and universities which allow for coursework taken in the Associate of Science degree program at Columbus State to transfer and apply to a bachelor's degree.

The Associate of Science, Chemistry transfer major is intended to provide students with the first two years of college chemistry education through the organic chemistry level. Chemistry is a popular pathway to health professional programs (dentistry, medicine, optometry, occupational therapy, pharmaceutical sciences, pharmacy, physical therapy, veterinary medicine) since some required pre-professional courses are embedded in this major.

ADMISSION REQUIREMENTS:

Students may begin this degree during any semester upon admission to the college. Eligibility for specific courses will be determined by evaluation of ACT or SAT scores, previous college credits, and Columbus State placement testing results (if required). Course descriptions and prerequisites are outlined in the Columbus State catalog at <http://www.csc.edu/academics/catalog/>.

ONGOING REQUIREMENTS:

All students must satisfactorily complete at least 61 credit hours of approved courses (a minimum of 20 credit hours must be completed at Columbus State) with an overall grade point average of 2.0 or better for all college-level courses completed at Columbus State. Consult with an Arts and Sciences Academic Advisor for Columbus State degree and graduation planning, assistance with developing and achieving academic goals, and information about transfer resources. Students should research program and admission requirements for their specific intended four-year institution and major early in their college career.

OPPORTUNITIES FOR GRADUATES:

Transfer:

The Associate of Science, Chemistry transfer major is designed for students who are planning to transfer to a four-year college or university with the goal of completing a bachelor's degree in Chemistry. Graduating with the Associate of Science degree includes completion of the Ohio Transfer Module. As a result, Associate of Science graduates have fulfilled most of their general education requirements and once admitted to the four-year program, will be focused on upper-level major courses.

Career:

Research educational requirements, expected earnings, and job market predictions using the online Career Coach tool at <http://csc.edu/emsicc.com>.

DEGREE REQUIREMENTS (A.S., CHEMISTRY):**FIRST SEMESTER**

Course	Term	Credits	Milestones/Progress Check
ENGL 1100 or ENGL 1101 Composition I	AU/SP/SU	3	<ul style="list-style-type: none"> Consult an Arts and Sciences Academic Advisor early on to help you select courses required by your transfer institution of choice.
CHEM 1171 General Chemistry I	AU/SP/SU	5	
COLS 1100 First Year Experience Seminar	AU/SP/SU	1	
Historical Study course *	AU/SP/SU	3	
MATH 1151 Calculus I	AU/SP/SU	5	
Accumulated Credits Earned		17	

SECOND SEMESTER

Course	Term	Credits	Milestones/Progress Check
CHEM 1172 General Chemistry II	AU/SP/SU	5	<ul style="list-style-type: none"> Connect with appropriate University advisor at the Columbus State Transfer Center; visit transfer campus. Apply for scholarships for next autumn semester.
Social and Behavioral Science course *	AU/SP/SU	3	
ENGL 2767 Composition II: Writing about Science & Tech. or other Intermediate Composition course *	AU/SP/SU	3	
MATH 1152 Calculus II or MATH 1172 Engineering Math A	AU/SP/SU	5	
Semester hours/Credits		16	
Accumulated Credits Earned		33	Halfway point to A.S. degree!

SUMMER SEMESTER

Course	Term	Credits	Milestones/Progress Check
Visual/Performing Arts course *	AU/SP/SU	3	<ul style="list-style-type: none"> Consult an Arts and Sciences Academic Advisor early on to help you select courses required by your transfer institution of choice.
Social and Behavioral Science course *	AU/SP/SU	3	
Semester hours/Credits		6	
Accumulated Credits Earned		39	

FOURTH SEMESTER

Course	Term	Credits	Milestones/Progress Check
MATH 2153 Calculus III or MATH 2177 Engineering Math B	AU/SP/SU	5-6	<ul style="list-style-type: none"> Submit petition to graduate Reconnect with appropriate University advisor at the Columbus State Transfer Center; visit transfer campus. Submit transfer admission application.
CHEM 2251 Organic Chemistry I	AU/SP/SU	5	
CHEM 2254 Organic Chemistry Lab I	AU/SP/SU	3	
PHYS 1250 Calculus-Based Physics I**	AU/SP/SU	5	
Semester hours/Credits		18-19	
Accumulated Credits Earned		57-58	

FIFTH SEMESTER

Course	Term	Credits	Milestones/Progress Check
PHYS 1251 Calculus-Based Physics II**	AU/SP/SU	5	<p style="text-align: center;">Ready for Graduation!</p>
CHEM 2252 Organic Chemistry II	AU/SP/SU	5	
CHEM 2255 Organic Chemistry Lab II	AU/SP/SU	3	
Semester hours/Credits		13	
Accumulated Credits Earned		70-71	

*Full list of course options: <https://www.cscs.edu/academics/transfer/degrees.shtml> AU: Autumn Semester/SP: Spring Semester/SU: Summer Semester

**Chemistry majors typically complete a year of calculus-based physics (PHYS 1250 and PHYS 1251) during the second year of their program. Even though the required 61 credits for the Associate of Science degree can be achieved without PHYS 1251, it is highly recommended to complete the physics sequence in preparation for taking physical chemistry in the third year. Requirements subject to change.