

The Ohio State University

Chemistry

Bachelor of Science

Effective beginning Academic Year 2024-25 (Last revised November 18, 2024)

The following table outlines how transfer credits will be applied to the Bachelor of Science in Chemistry degree at The Ohio State University for students who completed an Associate of Science degree via the Ohio Guaranteed Chemistry Transfer Pathway. The OGTP designation guarantees the transfer and applicability of credits, but does not guarantee admission to a program. Some bachelor-degree granting programs may be competitive, and students should check with individual institutions for their program admission requirements.

COURSE EQUIVALENCIES FROM THE ASSOCIATE DEGREE	Course Number	Credit Hours
GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36		
Any Ohio Transfer 36 approved First Writing (TME001) course	ENGLISH 1110.xx	3
Calculus I (TMM005)	MATH 1151	5
Any Ohio Transfer 36 approved Arts and Humanities course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Arts and Humanities course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Social and Behavioral Sciences course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Social and Behavioral Sciences course	Ohio Transfer 36 Elective*	3
General Chemistry I with lab (OSC008)	CHEM 1210	5
General Chemistry II with lab (OSC009)	CHEM 1220	5
Any Ohio Transfer 36 approved Second Writing (TME002) course	ENGLISH 2367.xx	3
Calculus II (TMM006)	MATH 1152	5
Up to 3-4 additional hours of Ohio Transfer 36 approved courses ¹	Ohio Transfer 36 Elective*	3-4
PRE-MAJOR/BEGINNING MAJOR		
Calculus-based Physics I with lab (OSC016)	PHYSICS 1250	5
Calculus-based Physics II with lab (OSC017)	PHYSICS 1251	5
Full-Year Sequence of Organic Chemistry with lab (OSC010)	CHEM 2510, 2520, 2540, and 2550	12
OTHER REQUIREMENTS		
Electives ²	Varies*	0-6
TOTAL HOURS FROM ASSOCIATE DEGREE:		60-65
Advising Notes: (*) Indicates that coursework will be evaluated for applicable equivalency upon transfer at the university. If a Transfer Assurance Guide (TAG) course is taken, the approved course equivalency will be awarded. ¹ OSU recommends Ohio Transfer 36 courses that will fulfill OSU's Race, Ethnicity, and Gender Diversity requirement. If not taken as part of the associate degree, students will need to complete this requirement at OSU. ² The OSU College of Arts and Sciences requires three semesters of world language and recommends filling elective spots with world language if possible.		

SPECIAL NOTES

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.

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The following additional coursework will be required to complete the Bachelor of Science in Chemistry degree at The Ohio State University after a student has completed an Associate of Science Ohio Guaranteed Chemistry Transfer Pathway degree. 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.

REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE		Course Number	Credit Hours
General Education:	GE Connection Seminar	GENED 2601	1
General Education:	Race, Ethnicity, and Gender Diversity	Varies	3
General Education:	GE Theme: Citizenship for a Diverse and Just World	Varies	4-6
General Education:	GE Theme: Elective	Varies	4-6
Major Prerequisite:	Calculus III	MATH 2153	4
Major Prerequisite:	Differential Equations	MATH 2255 or MATH 2415 or MATH 2177	3-4
College Requirement:	Arts and Sciences Survey: Transfer	ARTSSCI 1100.04	1
College Requirement:	World Language (completion through the 1103-level)	1101, 1102, and 1103	12
Major Requirement:	Physical Chemistry I	CHEM 4300	3
Major Requirement:	Physical Chemistry II	CHEM 4310	3
Major Requirement:	Physical Chemistry Laboratory ¹	CHEM 4410	3
Major Requirement:	Inorganic Chemistry	CHEM 3510	3
Major Requirement:	Analytical Chemistry I: Quantitative Analysis ¹	CHEM 2210 or CHEM 2210H	5
Major Requirement:	Analytical Chemistry II: Instrumental Analysis	CHEM 4870	3
Major Requirement:	Instrumental Analysis Laboratory	CHEM 4880	2
Major Requirement:	Advanced Science Electives	Varies	6
Major Requirement:	Advanced Science Laboratory	Varies	2
GE/Electives:	Additional General Education Courses and Electives	Varies	6-11
REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE TOTAL: ²			62-67
Advising Notes: ¹ Fulfills the embedded literacy requirements for advanced writing, data analysis, and technology. ² The OSU College of Arts and Sciences requires a total of 121 credit hours for degree completion. The total number of hours to complete a bachelor's degree represents a range of hours that may be needed depending on the individual course selections made during the associate degree program.			

COMPLETE BACHELOR'S DEGREE	Total Credit Hours
BACHELOR'S DEGREE TOTAL:	121

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SPECIAL NOTES

For more information, please contact:
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SAMPLE DEGREE MAP

THIRD YEAR

SEMESTER 5		SEMESTER 6	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
CHEM 3510 Inorganic Chemistry	3	CHEM 2210 Analytical Chemistry I: Quantitative Analysis	5
GENED 2601 GE Connection Seminar	1	MATH 2255 or MATH 2415 Differential Equations	3
MATH 2153 Calculus III	4	Advanced Science Elective	3
World Language 1101	4	Advanced Lab Elective	2
ARTSSCI 1100.04 Arts and Sciences Survey: Transfer	1	World Language 1102	4
GE Theme: Citizenship for a Diverse and Just World course	4		
Total Semester 5 Credit Hours	17	Total Semester 6 Credit Hours	17

FOURTH YEAR

SEMESTER 7		SEMESTER 8	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
CHEM 4300 Physical Chemistry I	3	CHEM 4870 Analytical Chemistry II: Instrumental Analysis	3
CHEM 4410 Physical Chemistry Laboratory	3	CHEM 4880 Instrumental Analysis Laboratory	2
Advanced Science Elective	3	CHEM 4310 Physical Chemistry II	3
World Language 1103	4	GE Race, Ethnicity, and Gender Diversity course	3
		GE Theme: Elective course	4
Total Semester 7 Credit Hours	13	Total Semester 8 Credit Hours	15