



Transfer Credit Ohio

Ohio Guaranteed Transfer Pathways

THE OHIO STATE UNIVERSITY

Earth Sciences Subprogram in Geological Sciences Bachelor of Science

EFFECTIVE BEGINNING ACADEMIC YEAR 2024-25

LAST REVISED: May 8, 2025

The following table outlines how transfer credits will be applied to the Bachelor of Science degree in Earth Sciences, subprogram in Geological Sciences, at The Ohio State University for students who completed an Associate of Science degree via the Ohio Guaranteed Geology 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
Ohio Transfer 36 approved elective [Recommended: Calculus-Based Physics I with lab (OSC016) or Algebra-Based Physics I with lab (OSC014)] ¹	PHYSICS 1250 or PHYSICS 1200	5
Up to 4 additional hours of Ohio Transfer 36 approved courses ²	Ohio Transfer 36 Elective*	3-4
PRE-MAJOR/BEGINNING MAJOR		
Physical Geology with lab (OSC025)	EARTHSC 1121	5
Historical Geology with lab (OSC026)	EARTHSC 2122	4
OTHER RECOMMENDATIONS		
Electives ³	Varies*	10-16
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 The Bachelor of Science in Earth Sciences, subprogram in Geological Sciences, at OSU requires Calculus-Based Physics I with lab (OSC016). ² 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. ³ The OSU College of Arts and Sciences requires three semesters of world language and recommends filling elective spots with world language if possible. OSU also requires several courses for preparation for the Earth Sciences major that could be taken during the associate degree program, including Calculus II (TMM006) and Biology I (OSC003).		



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The following additional coursework will be required to complete the Bachelor of Science degree in Earth Sciences, subprogram in Geological Sciences, at The Ohio State University after a student has completed an Associate of Science Ohio Guaranteed Geology 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:	Connection Seminar	GENED 2601	1
General Education:	Race, Ethnicity, and Gender Diversity	Varies	3
General Education:	Theme: Citizenship for a Diverse and Just World	Varies	4-6
General Education:	Theme: Elective	Varies	4-6
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
Preparation for Major:	Calculus II (if not completed in the associate degree program)	MATH 1152	0-5
Major Requirement:	Introductory Data Analysis for Earth and Environmental Sciences	EARTHSC 2245	4
Major Requirement:	Preparation for Thesis and Careers in the Earth Sciences	EARTHSC 2000	1
Major Requirement:	Science of Sustainability course	Varies	4
Major Requirement:	Earth Materials	EARTHSC 4421	3
Major Requirement:	Introductory Petrology	EARTHSC 4423	3
Major Requirement:	Structural Geology	EARTHSC 4530	4
Major Requirement:	Field Geology I (only offered in summer at field camp in Utah)	EARTHSC 5189.01	3
Major Requirement:	Field Geology II (only offered in summer at field camp in Utah)	EARTHSC 5189.02	3
Major Requirement:	Undergraduate Research for Thesis in Earth Sciences	EARTHSC 4999.01	1
Major Requirement:	Stratigraphy and Sedimentation	EARTHSC 4502	4
Major Requirement:	Approved minor, certificate, or any double major	Varies	13-15
REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE TOTAL:^{1,2}			68-75
Advising Notes: ¹ The OSU College of Arts and Sciences requires a minimum of 39 credit hours of upper-division coursework. 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

SPECIAL NOTES

For more information, please contact:
School of Earth Sciences
(614) 292-2721 | earthsciences@osu.edu
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SAMPLE DEGREE MAP

THIRD YEAR

SEMESTER 5		SEMESTER 6	
COURSE NAME & NUMBER	CREDIT HOURS	COURSE NAME & NUMBER	CREDIT HOURS
MATH 1152 Calculus II	5	EARTHSC 4423 Introductory Petrology	3
EARTHSC 4421 Earth Materials	3	EARTHSC 4502 Stratigraphy and Sedimentation	4
EARTHSC 4530 Structural Geology	4	EARTHSC 2245 Introductory Analysis for Earth and Environmental Sciences	4
ARTSSCI 1100.04 Arts and Sciences Survey: Transfer	1	GE Race, Ethnicity, and Gender Diversity	3
GENED2601 Connection Seminar	1	World Language 1101	4
EARTHSC 2000 Preparation for Thesis and Careers in the Earth Sciences	1		
Total SEMESTER 5 Credit Hours	15	Total SEMESTER 6 Credit Hours	18

SUMMER

COURSE NAME & NUMBER	CREDIT HOURS
EARTHSC 5189.01 Field Geology I (only offered in summer)	3
EARTHSC 5189.02 Field Geology II (only offered in summer)	3
Total SUMMER Credit Hours	6

FOURTH YEAR

SEMESTER 7		SEMESTER 8	
COURSE NAME & NUMBER	CREDIT HOURS	COURSE NAME & NUMBER	CREDIT HOURS
Science of Sustainability course	4	EARTHSC 4999.01 Undergraduate Research for Thesis in Earth Sciences	1
GE Theme: Citizenship for a Diverse and Just World course	4	World Language 1103	4
World Language 1102	4	GE Theme: Elective course	4
Minor or certificate course	3	Minor or certificate course	3
Minor or certificate course	3	Minor or certificate course	3
Total SEMESTER 7 Credit Hours	18	Total SEMESTER 8 Credit Hours	15