

EARTH SCIENCE EDUCATION--CATEGORICAL

The Earth Science Education – Categorical Science teacher preparation pathway involves the completion of the Geology (Non-Comprehensive) B.S. degree in combination a specified set of electives chosen within the Geography minor. Certification to teach requires an additional 15 months of education courses as a graduate student. These graduate courses can count towards a Master of Arts in Teaching degree.

Year 1 and Year 2 at SCC

Complete your **SSC Associate of Arts degree**. With the AA you will have met MSU's general education requirements. Please keep in mind that you may transfer to MSU prior to completing your AA degree and complete your general education requirements at MSU. Select your courses with the assistance of your SCC advisor and include the following SCC courses, as they will transfer and fulfill part of your MSU major requirements.

SCC course	MSU equivalent
PHY 125+127	GLG 110
PHY 130+131	AST 115
BIO 101+103	BIO 121
CHM 115	CHM 160 + 161
MAT 171 <u>or</u> MAT 150	MTH 138 or 181 ⁺
PHY 150+153 or 250	PHY 123 <u>or</u> 203
GEO 120	GEO 363

Year 3 and Year 4 at MSU[^]

First fall semester	Hours	First spring semester	Hours
GLG 314 Historical Geology	3	GLG 333 Petrology	3
GLG 332 Mineralogy	3	GLG 334 Sedimentary Geology	3
GLG Elective (318 or higher)	3	GLG Elective (400 or higher)	3
GRY 142 Physical Geography	4		
Total hours	14	Total hours	13

Second fall semester	Hours	Second spring semester	Hours
GLG Elective	3	*GLG 412 Field Geol of Mid-Continent	4
GLG 340 Structural Geology	4	GLG 358 Reporting Geological Information	3
GRY 135 Weather and Climate	4	GRY 108 Principles of Sustainability	3
GRY 100 World Regional Geography	3		
Total hours	14	Total hours	10

Summer after Year 4

*GLG 413 Field Geology--6 hours (in *lieu* of GLG 412)

[^]Only required courses for the Geology (non-comprehensive) major and the Geography minor are listed. Additional general elective credits may be required to reach the 120 credits required for graduation. Teaching certification will require additional graduate-level coursework.

Important notes about this MSU major

- Students seeking the credentials necessary to teach middle and high school Earth science must contact Ms. Melanie Carden-Jessen, our Earth Science Education advisor, to discuss specific details and develop an appropriate advising plan, including planning for the correct elective choices within the Geography minor.
- Certification to teach Earth Science will require additional graduate-level coursework. The required graduate courses can be completed in 15 months as part of the Geology B.S. + Master's of Applied Teaching pathway.
- This information is provided as a guide. Students are required to fulfill MSU graduation requirements to receive a degree and should consult their MSU advisor and the *MSU Undergraduate Catalog* for details, including the policy under which a transfer student who remains continuously enrolled may follow MSU graduation requirements in effect when the student first enrolled at their transfer institution (SCC).

Important resources for Earth Science Pathway majors

MSU departmental office

Department of Geography, Geology, and Planning
Temple Hall, Room 363
417-836-5800
<http://geosciences.missouristate.edu/>
Email: GGP@MissouriState.edu

MSU Transfer Advisor

Dr. Toby Dogwiler
Department Head
417-836-5800
TDogwiler@missouristate.edu

Online resources for prospective transfer students

Specific information for SCC students
MSU catalog
General transfer information
Transfer equivalency guide

www.missouristate.edu/admissions/scc
www.missouristate.edu/catalog
www.missouristate.edu/admissions/transfer
www.missouristate.edu/admissions/collcredit.htm

For assistance with admission and general questions

Donna Rebmann
Transfer Help Desk
417-447-6926
DonnaRebmann@MissouriState.edu

Lori Day
Transfer Student Recruiter-Evaluator
417-836-5517
LoriDay@MissouriState.edu

This document was prepared by the MSU Department of Geography, Geology and Planning in conjunction with MSU Office of Admissions. This information was last updated on March 4, 2019 and is subject to change.