

SECONDARY CERTIFICATION TEACHING MAJOR/MINOR EARTH SCIENCE

Major Requirements

A minimum of 32 semester hours is required.

Code	Title	Credit Hours
Required Courses		
GEOG 203	Weather and Climate	3
GEOL 118 & 118L	Physical Geology and Physical Geology Lab/Rec	4
GEOL 218 & 218L	Historical Geology and Historical Geology Lab	4
GEOL 340	Remote Sensing	3
GEOL 342	Physical Oceanography	3
GEOL 377	Field Methods	1
ASTR 130	Introduction to Astronomy	3
ASTR 131	Introductory Astronomy Lab	1
Electives		
Select from the following		10
ESCI 330	Land Use Planning and Mgmt	
GEOL 332	Hazardous Waste Management	
GEOL 370	Environmental Geology	
GEOL 372	Energy Resources	
GEOL 375	Groundwater Hydrology	
Total Credit Hours		32

Major Notes:

1. A minimum GPA of 2.75 is required for a major.
2. At least 15 semester hours of courses at UM-Dearborn required for a major.

Program Notes:

1. Minimum GPA's are required for program completion: 2.75 cumulative, 2.75 in major, 2.75 in minor, and 2.75 in Professional Studies.
2. Advising Policy: The student is responsible for complying with requirements described in the Undergraduate Catalog as well as on the Four Phase Checklist. Students are expected to meet with their College of Education, Health, and Human Services advisor at least once per year and in the term prior to graduation.
3. Courses taken on a PASS/FAIL basis will NOT be accepted toward program completion.
4. CEHHS recommends successful program completers for State of Michigan Certification, however, it is ultimately up to the State of Michigan to issue certificates. Certain offenses on a criminal record can keep individuals from obtaining teacher certification. Please refer to The Revised School Code, Act 451 of 1976, section 380.1539b.
5. Initial certification program students must have passing scores on the appropriate MTTC subject area test reported to the University of Michigan-Dearborn College of Education, Health, and Human Services by

electronic delivery or direct mail from Pearson Evaluation Systems prior to student teaching.

6. Certified teachers pursuing an endorsement in a post-degree program must complete all program requirements and have passing scores on the appropriate MTTC subject area test reported to the University of Michigan-Dearborn College of Education, Health, and Human Services by electronic delivery or direct mail from Pearson Evaluation Systems prior to a recommendation being made to the State of Michigan Department of Education.

Minor Requirements

A minimum of 25 semester hours is required.

Code	Title	Credit Hours
Required Courses		
GEOG 203	Weather and Climate	3
GEOL 118 & 118L	Physical Geology and Physical Geology Lab/Rec	4
GEOL 218 & 218L	Historical Geology and Historical Geology Lab	4
GEOL 342	Physical Oceanography	3
GEOL 377	Field Methods	1
ASTR 130	Introduction to Astronomy	3
ASTR 131	Introductory Astronomy Lab	1
EDD 481	Practicum in Science:Secnd Grd	1
Electives		
Select from the following:		5
ESCI 330	Land Use Planning and Mgmt	
GEOL 332	Hazardous Waste Management	
GEOL 340	Remote Sensing	
GEOL 370	Environmental Geology	
GEOL 372	Energy Resources	
GEOL 375 & 375L	Groundwater Hydrology and Groundwater Hydrology Lab	
Total Credit Hours		25

Minor Notes:

1. A minimum GPA of 2.75 is required for a minor.