

**UNDERGRADUATE COUNCIL
Request for Change(s)**

Originating unit requesting change _____ Geological Sciences _____

Type of Change requested:

- | | | |
|---|---|--|
| <input type="checkbox"/> Course number(s) | <input type="checkbox"/> Course prerequisite(s) | <input type="checkbox"/> Program title |
| <input type="checkbox"/> Course title | <input type="checkbox"/> Drop course(s) | <input type="checkbox"/> Program description |
| <input type="checkbox"/> Course description | <input type="checkbox"/> Drop program(s) | <input checked="" type="checkbox"/> Program requirements |

Semester and year change(s) take effect: _____ Fall 2022 _____

Appropriate computer abbreviation if course title is more than 30 spaces: _____

Briefly summarize the change requested:

- 1) *Adding GEOL 50873 as an "or" option for the required course, GEOL50443.*
- 2) *Removing GEOL 30112 as a required course and adding the two credit hours to the undergraduate research requirement. Undergraduate research requirements will now be at least 5 credit hours.*

Catalog copy

Present catalog copy (paste-up from catalog is acceptable).

Proposed change(s). (Include exact catalog copy as desired. Underline changes)

Requirements

The program requires a minimum of 45 hours on a 126-hour degree consisting of:

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Earth Systems Science FUNDAMENTALS:

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GEOL 10113	<i>Understanding the Earth</i>	GEOL 10113	<i>Understanding the Earth</i>
GEOL 20111	<i>Introduction to Geological Sciences</i>	GEOL 20111	<i>Introduction to Geological Sciences</i>
GEOL 20113	<i>Introduction to Earth Systems Science</i>	GEOL 20113	<i>Introduction to Earth Systems Science</i>
GEOL 30243	<i>Sedimentology</i>	GEOL 30243	<i>Sedimentology</i>
GEOL 50443	<i>Natural Hazards and Disasters</i>	GEOL 50443	<i>Natural Hazards and Disasters</i>
GEOL 50523	<i>Intro. to Geographic Information Systems</i>		<i>or</i>
GEOL 30112	<i>Geoscience Education Research</i>	GEOL 50873	<i>Environmental Remote Sensing</i>
GEOL 40693	<i>Soils in the Environment</i>	GEOL 50523	<i>Intro. to Geographic Information Systems</i>
GEOL 30103	<i>Science, Scientists and Society</i>	GEOL 40693	<i>Soils in the Environment</i>

Earth System Science SPECIALIZATIONS:

Students select a general track **or** ONE of the following four specializations:

- 1) GEOSPATIAL SCIENCE AND TECHNOLOGY
- 2) HYDROLOGIC SCIENCE
- 3) BIOGEOCHEMISTRY
- 4) EARTH SCIENCE EDUCATION

Track/Specialization require a minimum of 21 credit hours. At least 3 credit hours should be from undergraduate research directly related to the SPECIALIZATION. Courses within the Track/Specialization will be selected in consultation with a departmental advisor.

Associated Requirements - 29 hours (required and elective)

BIOL 10003	Contemporary Issues in Biology
CHEM 10113	General Chemistry I
MATH 10043	Elementary Statistics
MATH 10524	Calculus I
PHYS 10154	General Physics I with Laboratory

12 additional hours of:
Science, engineering, math or computer science electives selected with department approval.

Earth Systems Science SPECIALIZATIONS:

Students select a general track **or** ONE of the following four specializations:

- 1) GEOSPATIAL SCIENCE AND TECHNOLOGY
- 2) HYDROLOGIC SCIENCE
- 3) BIOGEOCHEMISTRY
- 4) EARTH SCIENCE EDUCATION

A minimum of 23 additional credit hours are required for the general track or a SPECIALIZATION; with a minimum of 5 credit hours from an independent undergraduate research project. Courses and research project will be selected in consultation with a departmental advisor.

Associated Requirements - 29 hours (required and elective)

BIOL 10003	Contemporary Issues in Biology
CHEM 10113	General Chemistry I
MATH 10043	Elementary Statistics
MATH 10524	Calculus I
PHYS 10154	General Physics I with Laboratory

12 additional hours of:
Science, engineering, math or computer science electives selected with department approval.

1. What is the justification for the change(s) requested?

GEOL 50443 is moving to a teaching cycle of every odd year with GEOL 50873 being taught in the same time slot on even years. Both courses are taught by the same faculty (Dr. Gebremichael) who requested the change to give students flexibility.

The removal of GEOL 30112 will give students the flexibility of dedicating more time beyond a single semester to their undergraduate research endeavors. We believe this will strengthen their marketability for industry and graduate school.

2. If applicable, explain how the change(s) will affect the current program outcomes and assessment mechanisms.

3. **Faculty Resources:** How will the unit provide faculty support for this change and any other impact this change may have on other current departmental listings.

No additional faculty resources are required to facilitate the changes.

4. **Educational Resources:** Will this change require additional resources not currently available (e.g. space, equipment, library, other)? YES
If yes, list additional resources needed. NO

No additional resources needed for current requested change to program.

5. If this change affects other units of the University, include a statement signed by the chairperson(s) of the affected unit(s).

We do not anticipate that the request will affect the functioning of other departments.

6. If cross-listed, provide evidence of approval by all curriculum committees appropriate to both the originating and cross-listed units.

Not Applicable



Approval signature of chairperson of originating unit