

UNDERGRADUATE COUNCIL
Request for Change(s)

Originating unit requesting change _____ Geology

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, 2020

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

Briefly summarize the change requested:

We are adding 3 required hours of Geology and decreasing the number of elective science hours from 12 to 9 to account for the new requirements. The total number of hours for the degree will not change. We are adding a new 1 hour 20K course and a required capstone 2 hour research course.

Catalog copy

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

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

See attached document

See attached document

1. What is the justification for the change(s) requested?
We see a need to educate new majors in all the areas of geology and give them some educational experience as new majors. We also want to make sure that all geology majors get involved in some research project before they leave TCU.

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

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.
The new first year course just requires the faculty teach 1 to 2 extra classes each spring semester. This will have no other real effect.

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

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

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



Approval signature of chairperson of originating unit

Geology, BS Requirements

The program of study requires a minimum of 33 hours, on a 126-hour degree, consisting of:
Core Requirements

GEOL 10113	Understanding the Earth	3
GEOL 30213	Mineralogy	3
GEOL 30223	Petrology	3
GEOL 30243	Sedimentology	3
GEOL 30423	Structural Geology	3
GEOL 30573	Stratigraphy	3
GEOL 40313	Invertebrate Paleontology	3
GEOL 40516	Summer Field Course in Geology	6
	6 hours of approved elective courses	6

Associated Requirements: 38-39 Hours

ENSC 10143	Contemporary Environmental Issues	3
MATH 10524	Calculus I	4
PHYS 10154	General Physics I with Laboratory	4
PHYS 10164	General Physics II with Laboratory	4
	OR	
PHYS 20474	Physics I with Laboratory: Mechanics	4
PHYS 20484	Physics II with Laboratory: Electromagnetism and Optics	4
CHEM 10113	General Chemistry I	3
CHEM 10123	General Chemistry II	3
CHEM 10122	General Chemistry II Laboratory	2
MATH 20524	Calculus II	4
	OR	
MATH 10043	Elementary Statistics	3
	OR	
INSC 20153	Statistical Analysis	3

Electives: 12 hours of science electives, selected with regard to the interest of the student and approved by the department.

Geology, BS - Proposed Requirements

The program of study requires a minimum of 36 hours, on a 126-hour degree, consisting of:
Core Requirements

GEOL 10113	Understanding the Earth	3
<u>GEOL 20111</u>	<u>Introduction to the Geological Sciences</u>	1
GEOL 30213	Mineralogy	3
GEOL 30223	Petrology	3
GEOL 30243	Sedimentology	3
GEOL 30423	Structural Geology	3
GEOL 30573	Stratigraphy	3
GEOL 40313	Invertebrate Paleontology	3
GEOL 40516	Summer Field Course in Geology	6
<u>GEOL 40892</u>	<u>Senior Thesis</u>	2
	6 hours of approved elective courses	6

Associated Requirements: 35-36 Hours

ENSC 10143	Contemporary Environmental Issues	3
MATH 10524	Calculus I	4
PHYS 10154	General Physics I with Laboratory	4
PHYS 10164	General Physics II with Laboratory	4
	OR	
PHYS 20474	Physics I with Laboratory: Mechanics	4
PHYS 20484	Physics II with Laboratory: Electromagnetism and Optics	4
CHEM 10113	General Chemistry I	3
CHEM 10123	General Chemistry II	3
CHEM 10122	General Chemistry II Laboratory	2
MATH 20524	Calculus II	4
	OR	
MATH 10043	Elementary Statistics	3
	OR	
INSC 20153	Statistical Analysis	3

Electives: 9 hours of science electives, selected with regard to the interest of the student and approved by the department.