

DOCUMENTS OF THE GENERAL FACULTY

**PROPOSED CHANGES TO THE BACHELOR OF SCIENCE IN GEOLOGICAL SCIENCES,
OPTION V: UTEACH IN THE JACKSON SCHOOL OF GEOSCIENCES CHAPTER IN THE
*UNDERGRADUATE CATALOG 2016-2018***

Dean Sharon Mosher in the Jackson School of Geosciences has filed with the secretary of the Faculty Council the following changes to the *Undergraduate Catalog, 2016-2018*. The secretary has classified this proposal as legislation of *exclusive* interest to only one college or school.

The Committee on Undergraduate Degree Program Review recommended approval of the changes on January 6, 2016, and forwarded the proposal to the Office of the General Faculty. The Faculty Council has the authority to approve this legislation on behalf of the General Faculty. The authority to grant final approval on this legislation resides with UT System.

If no objection is filed with the Office of the General Faculty by the date specified below, the legislation will be held to have been approved by the Faculty Council. If an objection is filed within the prescribed period, the legislation will be presented to the Faculty Council at its next meeting. The objection, with reasons, must be signed by a member of the Faculty Council.

To be counted, a protest must be received in the Office of the General Faculty by January 20, 2016.



Hillary Hart, Secretary
General Faculty and Faculty Council

If 4 a, b, c, or d was answered with yes, please answer the following questions. If the proposal has potential budgetary impacts for another college/school, such as requiring new sections or a non-negligible increase in the number of seats offered, at least one contact must be at the college-level.

How many students do you expect to be impacted?

Impacted schools must be contacted and their response(s) included:

Person communicated with:

Date of communication:

Response: Pending

- e. Does this proposal involve changes to the core curriculum or other basic education requirements (42-hour core, signature courses, flags)? If yes, explain:

If yes, undergraduate studies must be informed of the proposed changes and their response included:

Person communicated with:

Date of communication:

Response:

- f. Will this proposal change the number of hours required for degree completion? If yes, explain:

5. COLLEGE/SCHOOL APPROVAL PROCESS

Program approval date: May 6, 2015

Dean's Scholars approval date (for changes to Option II): N/A

College approval date: May 6, 2015

PROPOSED NEW CATALOG TEXT:

Option V: Teaching

~~The BS Geological Sciences, Option V: UTeach This option is designed to fulfill the course requirements for composite science certification as a middle grades or secondary school teacher in Texas with geological sciences as the primary teaching field; composite certification requires twenty-four semester hours of coursework in the primary field, twelve hours in a second field, and six hours each in two additional fields.~~

Additional Requirements Specific to the BS Geological Sciences, Option V: UTeach

Students must meet the following requirements to graduate and be recommended for certification.

- University grade point average of at least 2.50.
- Successful completion of secondary teacher certification and identified discipline specific content courses.
- Successful passing of final teaching portfolio review, conducted by the UTeach Program in Natural Sciences. Information about the portfolio review and additional certification requirements is available from the UTeach-Natural Sciences academic adviser.

Composite certification requires twenty-four semester hours of coursework in the primary field, twelve hours in a second field, and six hours each in two additional fields.

Degree requirements are divided into three categories: university-wide undergraduate degree requirements (the University Core Curriculum) and flag requirements, prescribed work for the degree, and major requirements. In addition, the student must fulfill the University's general requirements and the requirements of the Jackson School of Geosciences.

Prescribed Work

1. ~~In place of the foreign language requirement, either two years of high school coursework in a single foreign language or course 506 (or the equivalent) in a foreign language. Biology 337 (Topic 2: *Research Methods: UTeach*), Chemistry 368 (Topic 1: *Research Methods: UTeach*), or Physics 341 (Topic 7: *Research Methods: UTeach*).~~
2. ~~Mathematics 408C. This course also meets the mathematics requirement of the core curriculum. Algebra courses at the level of Mathematics 301 or the equivalent may not be counted toward the total number of semester hours required for the degree.~~
3. ~~2. History 329U or Philosophy 329U.~~
3. Eighteen semester hours of professional development coursework, consisting of:
 - a. Curriculum and Instruction 650S;
 - b. UTeach-Natural Sciences 101, 110, 350, 355, 360, and 170.
4. ~~Geological Sciences 401 or 303, 404C or 405, 416K, 416M, 420K or 320L, and 335, and enough additional upper division coursework in geological sciences to make a total of at least twenty-eight semester hours. For students seeking middle grades certification, the following coursework is required:~~
 - c. Educational Psychology 363M (Topic 3: *Adolescent Development*), or Psychology 301 and 304.
 - d. Curriculum and Instruction 339E.

Major Requirements

5. Mathematics 408C. This course also meets the mathematics requirement of the core curriculum. Algebra courses at the level of Mathematics 301 or the equivalent may not be counted toward the total number of semester hours required for the degree.
- ~~5.~~ 6. To meet the requirements of composite certification, the student must complete the following courses. In meeting this requirement, the student also fulfills parts I and II of the science and technology requirement of the core curriculum.
 - a. Biology 311C and 311D
 - b. Chemistry 301 and 302
 - c. Physics 302K, 102M, 302L, and 102N; or 301, 101L, 316, and 116L; or an equivalent sequence
 - d. Enough additional approved coursework in biology, chemistry, or physics to provide the required twelve semester hours in a second field
6. ~~Biology 337 (Topic 2: *Research Methods: UTeach*), Chemistry 368 (Topic 1: *Research Methods: UTeach*), or Physics 341 (Topic 7: *Research Methods: UTeach*).~~
7. Astronomy 303, 307, or 367M; and Marine Science 307.
8. Eighteen semester hours of professional development coursework, with a grade of at least C in each course: Curriculum and Instruction 650S, UTeach Natural Sciences 101, 110, 350, 355, 360, 170. Geological Sciences 401 or 303, 405, 416K, 416M, 420K or 320L, and 335.
9. For students seeking middle grades certification, the following coursework with a grade of at least C in each course: Educational Psychology 363M.3 (Topic 3: *Adolescent Development*), or Psychology 301 and 304; and Curriculum and Instruction 339E. Enough additional upper-division coursework to total at least twenty-eight semester hours in geological sciences.
10. Enough additional coursework to make a total 128 semester hours including core, prescribed and major work.

Suggested Arrangement of Courses
BS Geological Sciences, Option V: UTeach, Middle & Senior Grades

First Year

<u>First Term</u>	<u>Hours</u>	<u>Second Term</u>	<u>Hours</u>
<u>GEO 401 or 303</u>	<u>3</u>	<u>GEO 405</u>	<u>4</u>
<u>M 408C</u>	<u>4</u>	<u>CH 302</u>	<u>3</u>
<u>CH 301</u>	<u>3</u>	<u>UTS 110 (Step 2)</u>	<u>1</u>
<u>UTS 101 (Step 1)</u>	<u>1</u>	<u>BIO 311C</u>	<u>3</u>
<u>UGS 302 or 303</u>	<u>3</u>	<u>RHE 306</u>	<u>3</u>
	<u>14</u>		<u>14</u>

Second Year

<u>First Term</u>	<u>Hours</u>	<u>Second Term</u>	<u>Hours</u>
<u>GEO 416K</u>	<u>4</u>	<u>GEO 420K or 320L*</u>	<u>4</u>
<u>GEO 416M</u>	<u>4</u>	<u>HIS 329U or PHL 329U</u>	<u>3</u>
<u>BIO 311D</u>	<u>3</u>	<u>PHY 303K/103M</u>	<u>4</u>
<u>EDC 365C or UTS 350</u>	<u>3</u>	<u>Social Science</u>	<u>3</u>
<u>EDP 363M**</u>	<u>3</u>	<u>EDC 365D or UTS 355</u>	<u>3</u>
	<u>17</u>		<u>17</u>

Summer

<u>GOV 310L</u>	<u>3</u>
<u>E 316L, M, N or P</u>	<u>3</u>
	<u>6</u>

Third Year

<u>First Term</u>	<u>Hours</u>	<u>Second Term</u>	<u>Hours</u>
<u>GEO UDE</u>	<u>4</u>	<u>GEO UDE</u>	<u>3</u>
<u>GOV 312L</u>	<u>3</u>	<u>MNS 307</u>	<u>3</u>
<u>PHY 303L/103N</u>	<u>4</u>	<u>UD Elective (Science)</u>	<u>3</u>
<u>Elective (Science)</u>	<u>3</u>	<u>GEO 335</u>	<u>3</u>
<u>BIO 337 or CH 337 or PHY 337</u>	<u>3</u>	<u>History</u>	<u>3</u>
	<u>17</u>		<u>15</u>

Fourth Year

<u>First Term</u>	<u>Hours</u>	<u>Second Term</u>	<u>Hours</u>
<u>GEO UDE</u>	<u>3</u>	<u>EDC 650S</u>	<u>6</u>
<u>EDC 365E</u>	<u>3</u>	<u>UTS 170</u>	<u>1</u>
<u>EDC 339E***</u>	<u>3</u>		
<u>AST 303 or 307 or 367M</u>	<u>3</u>		
<u>Vis/Performing Art</u>	<u>3</u>		
	<u>15</u>		<u>7</u>

Total Credit Hours 128

**Offered in summer*

Senior Grades Track

***Not required*

****Replace with 2nd History course (3 hrs)*