March 11, 2014

Gregory Fenves
Executive Vice President and Provost
The University of Texas at Austin
MAI 201
Campus Mail Code: G1000

Dear Dr. Fenves:

Enclosed for your consideration and action are proposed changes to the Jackson School of Geosciences chapter of the Undergraduate Catalog, 2014-2016. On March 10, 2014, the Faculty Council approved the legislation on a no-protest basis. The proposals were classified as being of exclusive application and of primary interest only to a single college or school. The authority to grant final approval resides with UT System.

- Proposed Changes to the Flags in the BS of Science in Geological Sciences (D 11387-11389)
- Proposed Changes to the Flags in the BS of Sciences in Geosciences (D 11390-11392)
- Proposed Changes to the Flags of BA in Geological Sciences (D 11393-11396)

Please let me know if you have questions or if I can provide other information concerning these items of legislation.

Sincerely,

Dean P. Neikirk, Secretary
General Faculty and Faculty Council

DPN:dlr

Enclosure

xc:  William Powers Jr., president
     Charles Roeckle, deputy to the president

ee (letter only):  Sharon Mosher, dean, Jackson School of Geosciences
                 Alison Danforth, manager, IMA
                 Brenda Schumann, associate registrar
                 David Laude, senior vice provost, via Kati Pelletier
DOCUMENTS OF THE GENERAL FACULTY

PROPOSED ADDITION OF FLAGS TO THE BACHELOR OF SCIENCE IN GEOLOGICAL SCIENCES DEGREE PROGRAM IN THE JACKSON SCHOOL OF GEOSCIENCES SECTION OF THE UNDERGRADUATE CATALOG, 2014-2016

Dean Sharon Mosher in the Jackson School of Geosciences has filed with the secretary of the Faculty Council the following addition of flags to the Bachelor of Science in Geological Sciences degree program in the Jackson School of Geosciences section of the Undergraduate Catalog, 2014-2016. On September 26, 2013, the department faculty approved the proposal; the college faculty and the dean approved it on September 27, 2013. The secretary has classified this proposal as legislation of exclusive application and of primary interest only to a single college or school.

The Committee on Undergraduate Degree Program Review recommended approval of the change on February 26, 2014, and forwarded the proposed changes 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 March 10, 2014.

\[\text{Dean P. Neikirk, Secretary}\]
\[\text{General Faculty and Faculty Council}\]

PROPOSED ADDITION OF FLAGS TO THE BACHELOR OF SCIENCE IN GEOLOGICAL
SCIENCES DEGREE PROGRAM IN THE JACKSON SCHOOL OF GEOSCIENCES SECTION OF
THE UNDERGRADUATE CATALOG, 2014-2016

Type of Change  Academic Change

1. IF THE ANSWER TO ANY OF THE FOLLOWING QUESTIONS IS YES, THE COLLEGE MUST
CONSULT NEAL ARMSTRONG TO DETERMINE IF SACS-COC APPROVAL IS REQUIRED.
   • Is this a new degree program? No
   • Does the program offer courses that will be taught off campus? No
   • Will courses in this program be delivered electronically? No

2. EXPLAIN CHANGE TO DEGREE PROGRAM AND GIVE A DETAILED RATIONALE FOR
EACH INDIVIDUAL CHANGE (include page numbers in the catalog where changes will be made):
   All geosciences undergraduate degrees will require all six skills and experience flags as follows:
   1. Writing: two flagged courses beyond Rhetoric and Writing 306 or its equivalent
   2. Quantitative reasoning: one flagged course
   3. Global cultures: one flagged course
   4. Cultural diversity in the United States: one flagged course
   5. Ethics and leadership: one flagged course
   6. Independent inquiry: one flagged course

3. SCOPE OF PROPOSED CHANGE
   a. Does this proposal impact other colleges/schools? No
      If yes, then how?
   b. Will students in other degree programs be impacted (are the proposed changes to courses
      commonly taken by students in other colleges)? No
      If yes, then how?
   c. Will students from your college take courses in other colleges? No.
      Most natural sciences students take writing flag courses within their majors. Those students taking
      writing flags outside of natural sciences who change from bachelor of science or bachelor of arts
      degree programs to the Bachelor of Science and Arts will not take more flags from other colleges than
      they would if they remained in these other degree programs.
      If 3 a, b, or c was answered with yes:
      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:
   d. Does this proposal involve changes to the core curriculum or other basic education requirements
      (42-hour core, signature courses, flags)? Yes (see #2 above)
   e. Will this proposal change the number of hours required for degree completion? No.
      If yes, explain:

4. COLLEGE/SCHOOL APPROVAL PROCESS
   Department approval date: September 26, 2013
   College approval date: September 27, 2013
   Dean approval date: September 27, 2013
PROPOSED NEW CATALOG TEXT: UNDERGRADUATE CATALOG 2012-2014, PAGE 270

Catalogs > Undergraduate 2012-2014 > Geosciences > Degrees and Programs > Bachelor of Science in Geological Sciences

Bachelor of Science in Geological Sciences

The Bachelor of Science in Geological Sciences (BSGeoSci) serves as a professional degree for students planning careers as geologists, geophysicists, or teachers, as well as for those planning to pursue graduate work in the geosciences or a profession such as law or business. Careers are available in the petroleum and related energy industries, resource evaluation, mineral exploration, geologic hazard monitoring, environmental control and reclamation, building foundation evaluation, groundwater contamination studies, soil testing, regional planning, watershed management, climate modeling, and college or secondary school teaching. Graduates may also work in state or federal agencies, in universities or museums, with consulting firms, or with service companies to the energy and mineral industries.

A plan of study for the Bachelor of Science in Geological Sciences includes courses required by the University and required and elective courses in geological sciences (preceded by their prerequisite courses). Taken together, these courses make up an option, a degree plan with a particular concentration or emphasis. Thus, individuals may develop intellectually challenging yet quite different plans of study according to their personal interests and goals. Students seeking the Bachelor of Science in Geological Sciences degree must choose one of four options—I: General Geology, II: Geophysics, III: Hydrogeology, V: Teaching. (Option IV: Environmental Science and Sustainability is no longer offered.)

In addition to the prescribed work outlined below, all students must complete the University’s core curriculum. In some cases, a course that is required for the BSGeoSci may also be counted toward the core curriculum (these courses are identified below). In the process of fulfilling the core curriculum and other degree requirements, all students are expected to complete the following skills and experience flags:

1. Writing: two flagged courses beyond Rhetoric and Writing 306 or its equivalent
2. Quantitative reasoning: one flagged course
3. Global cultures: one flagged course
4. Cultural diversity in the United States: one flagged course
5. Ethnic and leadership: one flagged course
6. Independent inquiry: one flagged course

A course in one prescribed work area may not also be used to fulfill the requirements of another prescribed work area; the only exception to this rule is that a course that fulfills any other requirement may also be used to fulfill a flag requirement if the course carries that flag, unless otherwise specified.

Prescribed Work Common to All Options

[1] Two courses that carry a writing flag. Courses with a writing flag are identified in the Course Schedule, registrar.utexas.edu/schedules/. They may be used simultaneously to fulfill other requirements, unless otherwise specified.

[2] Courses 506 and 507 (or the equivalent) in a single foreign language, or as much of this coursework as required by the student’s score on the appropriate language placement test. Students in the teaching option must fulfill a different foreign language requirement, given with the other option requirements below.

For students who enter the University with fewer than two high school units in a single foreign language, the first two semesters in a language may not be counted toward the total number of semester hours required for the degree.

[3] Thirty-six semester hours of upper-division coursework must be completed in residence at the University. For students in options I, II, and III, at least eighteen of these hours must be in geological sciences; for students in option V, at least twelve hours must be in geological sciences. (Option IV: Environmental Science and Sustainability is no longer offered.) For all students, at least twelve of the thirty-six hours must be outside geological sciences.

{No other changes are proposed}
DOCUMENTS OF THE GENERAL FACULTY

PROPOSED ADDITION OF FLAGS TO THE BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCES DEGREE PROGRAM IN THE JACKSON SCHOOL OF GEO SCIENCES SECTION OF THE UNDERGRADUATE CATALOG, 2014-2016

Dean Sharon Mosher in the Jackson School of Geosciences has filed with the secretary of the Faculty Council the following addition of flags to the Bachelor of Science in Environmental Sciences degree program in the Jackson School of Geosciences section of the Undergraduate Catalog, 2014-2016. On September 26, 2013, the department faculty approved the proposal; the college faculty and the dean approved it on September 27, 2013. The secretary has classified this proposal as legislation of exclusive application and of primary interest only to a single college or school.

The Committee on Undergraduate Degree Program Review recommended approval of the change on February 26, 2014, and forwarded the proposed changes 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 March 10, 2014.

Dean P. Neilkirk, Secretary
General Faculty and Faculty Council

PROPOSED ADDITION OF FLAGS TO THE BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCES DEGREE PROGRAM IN THE JACKSON SCHOOL OF GEOSCIENCES SECTION OF THE UNDERGRADUATE CATALOG, 2014-2016

Type of Change  Academic Change

1. IF THE ANSWER TO ANY OF THE FOLLOWING QUESTIONS IS YES, THE COLLEGE MUST CONSULT NEAL ARMSTRONG TO DETERMINE IF SACS-COC APPROVAL IS REQUIRED.
   • Is this a new degree program? No
   • Does the program offer courses that will be taught off campus? No
   • Will courses in this program be delivered electronically? No

2. EXPLAIN CHANGE TO DEGREE PROGRAM AND GIVE A DETAILED RATIONALE FOR EACH INDIVIDUAL CHANGE (include page numbers in the catalog where changes will be made):
   All environmental science, geological sciences undergraduate degrees will require all six skills and experience flags as follows:
   1. Writing: two flagged courses beyond Rhetoric and Writing 306 or its equivalent
   2. Quantitative reasoning: one flagged course
   3. Global cultures: one flagged course
   4. Cultural diversity in the United States: one flagged course
   5. Ethics and leadership: one flagged course
   6. Independent inquiry: one flagged course

3. SCOPE OF PROPOSED CHANGE
   a. Does this proposal impact other colleges/schools? No
      If yes, then how?
   b. Will students in other degree programs be impacted (are the proposed changes to courses commonly taken by students in other colleges)? No
      If yes, then how?
   c. Will students from your college take courses in other colleges? No
      Most natural sciences students take writing flag courses within their majors. Those students taking writing flags outside of natural sciences who change from bachelor of science or bachelor of arts degree programs to the Bachelor of Science and Arts will not take more flags from other colleges than they would if they remained in these other degree programs.
      If 3 a, b, or c was answered with yes:
      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:
   d. Does this proposal involve changes to the core curriculum or other basic education requirements (42-hour core, signature courses, flags)? Yes (see #2 above)
   e. Will this proposal change the number of hours required for degree completion? No.
      If yes, explain:

4. COLLEGE/SCHOOL APPROVAL PROCESS
   Department approval date: September 26, 2013
   College approval date: September 27, 2013
   Dean approval date: September 27, 2013
Bachelor of Science in Environmental Science

The BSEnviroSci curriculum consists of 126 semester hours of coursework. All students must complete the University’s core curriculum. In the process of fulfilling the core curriculum and other degree requirements, all students are expected to complete the following skills and experience flags:

1. Writing: two flagged courses beyond Rhetoric and Writing 306 or its equivalent
2. Quantitative reasoning: one flagged course
3. Global cultures: one flagged course
4. Cultural diversity in the United States: one flagged course
5. Ethic and leadership: one flagged course
6. Independent inquiry: one flagged course

The specific degree requirements consist of prescribed work and major requirements. In some cases, a course that is required for the degree may also be counted toward the core curriculum. A course in one prescribed work area may not also be used to fulfill the requirements of another prescribed work area; the only exception to this rule is that a course that fulfills [another] any other requirement may also be used to fulfill [the writing] a flag requirement if the course carries [a writing] that flag, unless otherwise specified.

Prescribed Work

Major Requirements

The following thirty-six semester hours of coursework are required; these hours must include at least twelve hours of approved upper-division work in geological sciences.

1. Geological Sciences 404C or 405, 416K, 416M and 420K
2. Mathematics 408D or 408M
3. Four semester hours of physics in one of the following second-semester sequences: Physics 316 and 116L, 317L and 117N, 303L and 103N
4. One of the following courses on climate and water: Geological Sciences 371C (approved topics), 376E, 476K, 476M, 376S, 377P (The same course may not be used to satisfy both requirement 4 of the major requirements and requirement 10 of the prescribed work.)
5. Nine semester hours of upper-division elective coursework in geological sciences

[6] Two courses that carry a writing flag (One of these courses must be upper-division. Courses with a writing flag are identified in the Course Schedule, http:// registrar.utexas.edu/schedules/. They may be used simultaneously to fulfill other requirements, unless otherwise specified.)

[7] Enough additional coursework to make a total of 126 semester hours.

Special Requirements

Students must fulfill the University-wide General Requirements and the Special Requirements of the Jackson School given earlier in this section. They must also earn a grade of at least C- in each mathematics and science course required for the degree, and a grade point average in these courses of at least 2.00. More information about grades and the grade point average is given in General Information.

{No other changes are proposed}
DOCUMENTS OF THE GENERAL FACULTY

PROPOSED ADDITION OF FLAGS TO THE BACHELOR OF ARTS IN GEOLOGICAL SCIENCES DEGREE PROGRAM IN THE JACKSON SCHOOL OF GEOSCIENCES SECTION OF THE UNDERGRADUATE CATALOG, 2014-2016

Dean Sharon Mosher in the Jackson School of Geosciences has filed with the secretary of the Faculty Council the following addition of flags to the Bachelor of Arts in Geological Sciences degree program in the Jackson School of Geosciences section of the Undergraduate Catalog, 2014-2016. On September 26, 2013, the department faculty approved the proposal; the college faculty and the dean approved it on September 27, 2013. The secretary has classified this proposal as legislation of exclusive application and of primary interest only to a single college or school.

The Committee on Undergraduate Degree Program Review recommended approval of the change on February 26, 2014, and forwarded the proposed changes 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 March 10, 2014.

Dean P. Neikirk, Secretary
General Faculty and Faculty Council

PROPOSED ADDITION OF FLAGS TO THE BACHELOR OF ARTS IN GEOLOGICAL SCIENCES DEGREE PROGRAM IN THE JACKSON SCHOOL OF GEOSCIENCES SECTION OF THE UNDERGRADUATE CATALOG, 2014-2016

Type of Change  Academic Change

1. IF THE ANSWER TO ANY OF THE FOLLOWING QUESTIONS IS YES, THE COLLEGE MUST CONSULT NEAL ARMSTRONG TO DETERMINE IF SACS-COC APPROVAL IS REQUIRED.
   • Is this a new degree program?  No
   • Does the program offer courses that will be taught off campus?  No
   • Will courses in this program be delivered electronically?  No

2. EXPLAIN CHANGE TO DEGREE PROGRAM AND GIVE A DETAILED RATIONALE FOR EACH INDIVIDUAL CHANGE (include page numbers in the catalog where changes will be made):
   All geosciences undergraduate degrees will require all six skills and experience flags as follows:
   1. Writing: two flagged courses beyond Rhetoric and Writing 306 or its equivalent
   2. Quantitative reasoning: one flagged course
   3. Global cultures: one flagged course
   4. Cultural diversity in the United States: one flagged course
   5. Ethics and leadership: one flagged course
   6. Independent inquiry: one flagged course

3. SCOPE OF PROPOSED CHANGE
   a. Does this proposal impact other colleges/schools?  No
      If yes, then how?
   b. Will students in other degree programs be impacted (are the proposed changes to courses commonly taken by students in other colleges)?  No
      If yes, then how?
   c. Will students from your college take courses in other colleges?  No.
      Most natural sciences students take writing flag courses within their majors. Those students taking writing flags outside of natural sciences who change from bachelor of science or bachelor of arts degree programs to the Bachelor of Science and Arts will not take more flags from other colleges than they would if they remained in these other degree programs.
      If 3 a, b, or c was answered with yes:
      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:
   d. Does this proposal involve changes to the core curriculum or other basic education requirements (42-hour core, signature courses, flags)?  Yes (see #2 above)
   e. Will this proposal change the number of hours required for degree completion?  No.
      If yes, explain:

4. COLLEGE/SCHOOL APPROVAL PROCESS
   Department approval date:  September 26, 2013
   College approval date:  September 27, 2013
   Dean approval date:  September 27, 2013
Bachelor of Arts in Geological Sciences

All students must complete the University's core curriculum. In the process of fulfilling the core curriculum and other degree requirements, all students are expected to complete the following skills and experience flags:

1. Writing: two flagged courses beyond Rhetoric and Writing 306 or its equivalent
2. Quantitative reasoning: one flagged course
3. Global cultures: one flagged course
4. Cultural diversity in the United States: one flagged course
5. Ethic and leadership: one flagged course
6. Independent inquiry: one flagged course

The specific requirements for the Bachelor of Arts in Geological Sciences consist of prescribed work, major and minor requirements, and electives. In some cases, a course that is required for the degree may also be counted toward the core curriculum. A course in one prescribed work area may not also be used to fulfill the requirements of another prescribed work area; the only exception to this rule is that a course that fulfills any other requirement may also be used to fulfill a flag requirement if the course carries that flag, unless otherwise specified. In addition, the student must fulfill the University general requirements, and the requirements of the Jackson School given in special requirements of the college.

Prescribed Work

[1. Writing: Two courses that carry a writing flag. Courses with a writing flag are identified in the Course Schedule, registrar.stevens.edu/schedules/. They may be used simultaneously to fulfill other requirements, unless otherwise specified.]

[2. 1. Foreign language: Four semesters, or the equivalent, in a single foreign language. The foreign language requirement is the attainment of a certain proficiency, rather than the completion of a specified number of hours. Any part of the requirement may be fulfilled by credit by examination. To achieve proficiency in a foreign language as rapidly as possible, qualified students are urged to take intensive foreign language courses. Information about these courses is available from the departments that offer them. Courses used to fulfill the foreign language requirement must be language courses; literature-in-translation courses, for example, may not be counted.

[2. 2. Social science: Three semester hours in social science, in addition to the course counted toward the social and behavioral sciences requirement of the core curriculum. The course must be chosen from the following fields; it must be in a different field from the course used to fulfill the core curriculum social and behavioral sciences requirement.
   1. Anthropology
   2. Economics
   3. Geography
   4. Linguistics
   5. Psychology
   6. Sociology

[4. 2. Natural science: Six semester hours in natural sciences, in addition to the courses counted toward the science and technology requirements of the core curriculum. Courses must be chosen from the following fields; no more than three hours may be in either the history of science or the philosophy of science.
   a. Astronomy
   b. Biology
   c. Chemistry
   d. Marine science
   e. Nutrition
   f. Physical science]
g. Physics
h. Mathematics
i. Computer science
j. Experimental psychology
k. Physical anthropology
l. Physical geography
m. Philosophy (courses in logic)
n. History of science and philosophy of science
o. Other fields approved by the dean

[5] 4. General culture: Three semester hours in addition to the course counted toward the visual and performing arts requirement of the core curriculum. Courses in the following fields may be used:
   a. Architecture
   b. Classical civilization, Greek, Latin
   c. Art history, design, ensemble, fine arts, instruments, music, studio art, theatre and dance, visual art studies
   d. Philosophy (excluding courses in logic)
   e. Approved interdisciplinary courses including, but not limited to, those in programs of special concentration cutting across specific departments, schools, or colleges. Lists of approved courses are available in the Undergraduate Student Services Office.

{No other changes are proposed}