

ATTACHMENT 1L-1 LETTER OF NOTIFICATION – 3

NEW OPTION, CONCENTRATION, EMPHASIS

(Maximum 18 semester credit hours of new theory courses and 6 credit hours of new practicum courses)

1. Institution submitting request: University of Arkansas, Fayetteville
2. Contact person/title: Dr. Sharon Gaber, Provost and Vice-Chancellor for Academic Affairs, ADMN 422, University of Arkansas, Fayetteville, AR 72701
3. Phone number/e-mail address: (479) 575-2151 / sgaber@uark.edu
4. Proposed effective date: Fall 2014
5. Title of degree program: This is a new concentration in the Geology program. A simultaneous proposal is being submitted by Physics.
6. CIP Code: 40 .0601
7. Degree Code: 2660
8. Proposed option/concentration/emphasis name: Geophysics concentration
9. Reason for proposed action:

A variety of sub-disciplines of the geological sciences rely increasingly on quantitative, physics-based understanding of earth materials and geological and hydrological processes. Preparation for work within these fields requires a combination of geology, physics, and mathematics skills that is not typically obtained from a traditional degree program within geology or physics.
10. New option/concentration/emphasis objective:

The proposed degree program will use existing faculty, courses, and resources to prepare students that are competitive for the top geophysics graduate programs in the country and will also act as a recruiting tool to bring physics majors into a double major in geology. The final aim can be energy or environmental industry (MS terminal degree) or research careers within geophysics broadly-defined (PhD terminal).
11. Provide the following:
 - a. List of required courses

Students will complete the same required courses as for the Geology BS with the exception of the Foreign Language requirement; GEOL 1133; GEOL 1131L; and GEOL 4863. The courses eliminated and part of the upper division electives from Geology will be replaced with PHYS 3614; PHYS 3113; PHYS 3413; PHYS 4073 and PHYS 4991.
 - b. New course descriptions: No new courses
 - c. Program goals and objectives: To provide an excellent career preparation for our students that is not currently offered, but is completely within our current resources.
 - d. Expected student learning outcomes: Students will be prepared for a variety of career paths. Students doing the minimum requirements for the concentration will have completed the requirements for a minor in physics and those completing the entire listing will have earned sufficient credit for a double major in Geology and Physics. With a strong physics background,

this opens some very good career options. Additional electives as indicated possible in the 8-semester plan open more career and PhD research options.

12. Will the new option be offered via distance delivery? No, since neither of the existing degrees from which it draws resources are offered distance. It will make use of any distance courses offered in any of the existing courses.

13. Mode of delivery to be used: See above.

14. Explain in detail the distance delivery procedures to be used: See above.

15. Is the degree approved for distance delivery? See above.

16. List courses in option/concentration/emphasis. Include course descriptions for new courses.

Geology core less exceptions noted in 11a plus PHYS 3614; PHYS 3113; PHYS 3413; PHYS 4073; PHYS 4991; MATH 2574; and MATH 2584

17. Specify the amount of the additional costs required, the source of funds, and how funds will be used.
None.

Board of Trustees Approval Date:

Chief Academic Officer

Date: