

ATTACHMENT 1P-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 2012
5. Title of degree program: Bachelor of Science in Physics
6. CIP Code: 40.0801
7. Degree Code: 3030
8. Proposed option/concentration/emphasis name: Astronomy
9. Reason for proposed action:
The new option will provide students going on to graduate school in astronomy or astrophysics a significant asset in the astronomy graduate school acceptance process.
10. New option/concentration/emphasis objective: To provide an option for students bound for graduate school in astronomy or astrophysics.
11. Provide the following:
 - a. List of required courses: PHYS 3544 plus 6 semester hours of ASTR courses numbered 3000 or above (3033, 4013, 4073).
 - b. New course descriptions: **ASTR 4073 Cosmology** (Even years, FA) An introduction to modern Big Bang cosmology for juniors and seniors. The course covers the origin, evolution, and structure of the Universe, based on the Theory of Relativity. Prerequisite: PHYS 3614 or CHEM 3504. Course has been submitted for approval the standard curriculum review process and has been approved by Fulbright College.
 - c. Program goals and objectives: To prepare students for graduate school in astronomy and astrophysics.
 - d. Expected student learning outcomes: Success in gaining admission to graduate schools in astronomy and astrophysics.
12. Will the new option be offered via distance delivery? no
13. Mode of delivery to be used: standard lecture
14. Explain in detail the distance delivery procedures to be used:

15. Is the degree approved for distance delivery? no

16. List courses in option/concentration/emphasis. Include course descriptions for new courses. PHYSBS core courses, plus PHYS 3544 plus 6 semester hours of ASTR courses numbered 3000 or above (3033, 4013, 4073).

ASTR 4073 Cosmology (Even years, FA) An introduction to modern Big Bang cosmology for juniors and seniors. The course covers the origin, evolution, and structure of the Universe, based on the Theory of Relativity.

17. Specify the amount of the additional costs required, the source of funds, and how funds will be used.

No additional costs

Board of Trustees Approval Date:

Chief Academic Officer

Date: