

SIGNATURE ROUTING LOG





General Information:

Proposal Type: Course Program Other
 Proposal Name¹ (course prefix & number, pgm major & degree, etc.): Physics BA
 Proposal Contact Person Name: Kwok-Wai Ng Phone: 7-1782 Email: kwng@uky.edu

INSTRUCTIONS:

Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

Internal College Approvals and Course Cross-listing Approvals:

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
Physics & Astronomy	8/19/10	Kwok-Wai Ng, DUS / 7-1782 / kwng@uky.edu	
Physics & Astronomy	8/19/10	Mike Cavagnero / 7-6901 / mike@pa.uky.edu	
		/ /	
		/ /	
A&S Ed. Policy Cmte.	9/21/10	G. Murthy, Nat. Sci. / 7-4729 / ganpathy.murthy@uky.edu	
A&S Dean	9/21/10	Anna Bosch, Associate Dean / 7-6689 / bosch@uky.edu	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision ²
Undergraduate Council			
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

¹ Proposal name used here must match name entered on corresponding course or program form.

² Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

CHANGE UNDERGRADUATE PROGRAM FORM

1. General Information

College: Arts and Sciences Department: Physics and Astronomy
 Current Major Name: Physics Proposed Major Name: Physics
 Current Degree Title: BA Proposed Degree Title: BA
 Formal Option(s): _____ Proposed Formal Option(s): _____
 Specialty Field w/in _____ Proposed Specialty Field
 Formal Option: _____ w/in Formal Options: _____
 Date of Contact with Associate Provost for Academic Administration¹: 4/20/2010
 Bulletin (yr & pgs): 2009; 145 CIP Code¹: 400801 Today's Date: 3-31-2010
 Accrediting Agency (if applicable): _____
 Requested Effective Date: Semester following approval. OR Specific Date²: _____
 Dept. Contact Person: Kwok-Wai Ng Phone: 7-1782 Email: kwng@uky.edu

2. University Studies Requirements or Recommendations for this Program.

	Current	Proposed
I. Mathematics	<u>MA 113</u>	<u>MA 113</u>
II. Foreign Language	<u>6 hours in single language</u>	<u>6 hours in single language</u>
III. Inference-Logic	<u>MA 114</u>	<u>MA 114</u>
IV. Written Communication	ENG 104 or Honors	<u>Eng 104</u>
V. Oral Communication	Suspended through Fall 2009	<u>Suspended through Fall 2009</u>
VI. Natural Sciences	<u>PHY 231, 232</u>	<u>PHY 231, 232</u>
VII. Social Sciences	<u>2 courses in separate disciplines</u>	<u>2 courses in separate disciplines</u>
VIII. Humanities	<u>6 hours</u>	<u>6 hours</u>
IX. Cross-Cultural	<u>300+- level PHI course</u>	<u>1 course</u>
X. USP Electives (3 must be outside the student's major)	<u>300+- Social Science course</u>	<u>6 hours</u>

3. Explain whether the proposed changes to the program (as described in sections 4 to 12) involve courses offered by another department/program. Routing Signature Log must include approval by faculty of additional department(s).

No changes in the program involve another department.

4. Explain how satisfaction of the University Graduation Writing Requirement will be changed.

Current Standard University course offering. Proposed Standard University course offering.

¹ Prior to filling out this form, you MUST contact the Associate Provost for Academic Administration (APAA). If you do not know the CIP code, the (APAA) can provide you with that during the contact.

² Program changes are typically made effective for the semester following approval. No program will be made effective until all approvals are received.

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List: _____

List: _____

Specific course – list: PHY 435W

Specific course) – list: PHY 435W

5. List any changes to college-level requirements that must be satisfied.

Current

Standard college requirement.

List: Arts and Sciences

Specific required course – list: _____

Proposed

Standard college requirement.

List: Arts and Sciences

Specific course – list: _____

6. List pre-major or pre-professional course requirements that will change, including credit hours.

Current

PHY 231/232/241/242(10) or 211/213(10)

PHY228(3)

CHE 105(3)/107(3)

MA 113/114(8)

Proposed

PHY 231/232/241/242(10) or 211/213(10)

PHY 228(3)

CHE 105(4)/107(3) (Chemistry Dept. is changing the credit hours of CHE105 from 3 to 4.)

MA 113/114(8)

7. List the major's course requirements that will change, including credit hours.

Current

PHY 306(3)

PHY 335(1)

PHY 361(3)

PHY404G(3)

PHY 416G(3)

PHY 520(3)

MA 213(4)

MA 214(3)

Proposed

PHY 306(3)

PHY 335(1)

PHY 361(3)

Any 3-hour 300-level PHY course(3)

Any 3-hour 400-level PHY course(3)

PHY 435W(3)

MA 213(4)

8. Does the pgm require a minor AND does the proposed change affect the required minor? N/A Yes No
If "Yes," indicate current courses and proposed changes below.

Current

Proposed

9. Does the proposed change affect any option(s)? N/A Yes No
If "Yes," indicate current courses and proposed changes below, including credit hours, and also specialties and subspecialties, if any.

Current

Proposed

10. Does the change affect pgm requirements for number of credit hrs outside the major subject in a related field? Yes No
If so, indicate current courses and proposed changes below.

Current

Proposed

11. Does the change affect pgm requirements for technical or professional support electives? Yes No

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If so, indicate current courses and proposed changes below.

Current

Proposed

12. Does the change affect a minimum number of free credit hours or support electives?

Yes No

If "Yes," indicate current courses and proposed changes below.

Current

Proposed

13. Summary of changes in required credit hours:

	Current	Proposed
a. Credit Hours of Premajor or Preprofessional Courses:	<u>27</u>	<u>28</u>
b. Credit Hours of Major's Requirements:	<u>23</u>	<u>20</u>
c. Credit Hours for Required Minor:	_____	_____
d. Credit Hours Needed for a Specific Option:	_____	_____
e. Credit Hours Outside of Major Subject in Related Field:	<u>14@200+-level</u>	<u>14@200+-level</u>
f. Credit Hours in Technical or Professional Support Electives:	_____	_____
g. Minimum Credit Hours of Free/Supportive Electives:	<u>6</u>	<u>6</u>
h. Total Credit Hours Required by Level:	100: <u>14</u>	<u>15</u>
	200: <u>34</u>	<u>31</u>
	300: <u>7</u>	<u>10</u>
	400-500: <u>9</u>	<u>6</u>
i. Total Credit Hours Required for Graduation:	<u>121</u>	<u>121</u>

14. Rationale for Change(s) – if rationale involves accreditation requirements, please include specific references to that.

The current BA requirements in physics are almost identical to those of the BS degree, and as a result very few students elect the BA option. We feel there is a need for a physics program which is not necessarily a pre-graduate school curriculum, but which nevertheless prepares graduates for lower-level jobs of a technical nature. This proposed BA curriculum accomplishes that, primarily by shifting the required coursework from the difficult 400- and 500-level classes (currently 404 mechanics, 416 electrodynamics, and 520 quantum mechanics) to lower-level requirements. By better distinguishing the BS and BA curricula, we hope to attract new students to the program. The proposed BA will also serve as a fall-back option to BS students having trouble with the difficult upper-level curriculum.

15. List below the typical semester by semester program for the major. If multiple options are available, attach a separate sheet for each option.

YEAR 1 – FALL:

(e.g. "BIO 103; 3 credits")

MA 113(4)

ENG 104 (4)

USP Social Sciences (3)

USP Humanities (3)

YEAR 2 – FALL :

MA 213 (3)

PHY 232/242(5)

YEAR 1 – SPRING:

MA 114(4)

PHY 231/241(5)

USP Social Sciences (3)

USP Humanities (3)

YEAR 2 – SPRING:

MA214 or Major related electives(3)

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	<u>Foreign Language (4)</u> <u>CS115 or Major related</u> <u>electives (3)</u>		<u>PHY 306(3)</u> <u>PHY 228(3)</u> <u>Foreign Language (4)</u> <u>Elctives (3)</u>
YEAR 3 - FALL:	<u>CHE 105(4)</u> <u>PHY335(1)</u> <u>Foreign Language (3)</u> <u>MA322 or Major related</u> <u>electives (3)</u> <u>PHI300+ (3)</u> <u>Electives (3)</u>	YEAR 3 - SPRING:	<u>CHE 107(3)</u> <u>PHY361(3)</u> <u>Foreign Language (3)</u> <u>Social Sciences 300+(3)</u> <u>Major related Electives(3)</u>
YEAR 4 - FALL:	<u>PHY 3XX(3)</u> <u>PHY 4XX(3)</u> <u>Social Sciences 300+(3)</u> <u>Major related electives (3)</u> <u>Electives (3)</u>	YEAR 4 - SPRING:	<u>PHY 435W(3)</u> <u>PHY4XX (suggested)(3)</u> <u>PHY5XX (suggested)(3)</u> <u>Electives (5)</u>