1. General Information

1a. Submitted by the College of: ARTS &SCIENCES

Date Submitted: 2/14/2013

1b. Department/Division: Physics And Astronomy

1c. Contact Person

Name: Kwok-Wai Ng (DUS)

Email: kwng@uky.edu

Phone: 7-1782

Responsible Faculty ID (if different from Contact)

Name:

Email:

Phone:

1d. Requested Effective Date: Semester following approval

1e. Should this course be a UK Core Course? No

2. Designation and Description of Proposed Course

2a. Will this course also be offered through Distance Learning?: No

2b. Prefix and Number: PHY 460G

2c. Full Title: Hands-on Physics for Middle School and High School Teachers

2d. Transcript Title:

2e. Cross-listing:

2f. Meeting Patterns

LABORATORY: 4

2g. Grading System: Letter (A, B, C, etc.)

2h. Number of credit hours: 2

2i. Is this course repeatable for additional credit? Yes

If Yes: Maximum number of credit hours: 4

If Yes: Will this course allow multiple registrations during the same semester? Yes

2j. Course Description for Bulletin: An exploration of classical and modern physics, in a laboratory setting. This course may be taken twice for credit.

2k. Prerequisites, if any: PHY228 and PHY361

2l. Supplementary Teaching Component:

3. Will this course taught off campus? No

If YES, enter the off campus address:

4. Frequency of Course Offering: Spring,

Will the course be offered every year?: Yes

If No, explain:

5. Are facilities and personnel necessary for the proposed new course available?: Yes

If No, explain:

6. What enrollment (per section per semester) may reasonably be expected?: 20

7. Anticipated Student Demand

Will this course serve students primarily within the degree program?: Yes

Will it be of interest to a significant number of students outside the degree pgm?: Yes

If Yes, explain: [var7InterestExplain]

8. Check the category most applicable to this course: Relatively New – Now Being Widely Established,

If No, explain:

9. Course Relationship to Program(s).

a. Is this course part of a proposed new program?: No

If YES, name the proposed new program:

b. Will this course be a new requirement for ANY program?: No

If YES, list affected programs:

10. Information to be Placed on Syllabus.

a. Is the course 400G or 500?: Yes

b. The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable, from **10.a** above) are attached: Yes

Distance Learning Form

Instructor Name:

Instructor Email:

Internet/Web-based: No

Interactive Video: No

Hybrid: No

1.How does this course provide for timely and appropriate interaction between students and faculty and among students? Does the course syllabus conform to University Senate Syllabus Guidelines, specifically the Distance Learning Considerations?

2.How do you ensure that the experience for a DL student is comparable to that of a classroom-based student's experience? Aspects to explore: textbooks, course goals, assessment of student learning outcomes, etc.

3.How is the integrity of student work ensured? Please speak to aspects such as password-protected course portals, proctors for exams at interactive video sites; academic offense policy; etc.

4.Will offering this course via DL result in at least 25% or at least 50% (based on total credit hours required for completion) of a degree program being offered via any form of DL, as defined above?

If yes, which percentage, and which program(s)?

5.How are students taking the course via DL assured of equivalent access to student services, similar to that of a student taking the class in a traditional classroom setting?

6.How do course requirements ensure that students make appropriate use of learning resources?

7.Please explain specifically how access is provided to laboratories, facilities, and equipment appropriate to the course or program.

8.How are students informed of procedures for resolving technical complaints? Does the syllabus list the entities available to offer technical help with the delivery and/or receipt of the course, such as the Information Technology Customer Service Center (http://www.uky.edu/UKIT/)?

9.Will the course be delivered via services available through the Distance Learning Program (DLP) and the Academic Technology Group (ATL)? NO

If no, explain how student enrolled in DL courses are able to use the technology employed, as well as how students will be provided with assistance in using said technology.

10.Does the syllabus contain all the required components? NO

11.I, the instructor of record, have read and understood all of the university-level statements regarding DL.

Instructor Name:

SIGNATURE|MJCAVA1|Michael J Cavagnero|Dept approval for ZCOURSE_NEW PHY 460G|20120927

SIGNATURE|RHANSON|Roxanna D Hanson|College approval for ZCOURSE_NEW PHY 460G|20120928

SIGNATURE|ZNNIKO0|Roshan N Nikou|Graduate Council approval for ZCOURSE_NEW PHY 460G|20121025

SIGNATURE|JMETT2|Joanie Ett-Mims|Undergrad Council approval for ZCOURSE_NEW PHY 460G|20121115

About this new course proposal:

This course is set up for the STEM - Physics Major for Secondary Education program (College of Education). Students in the STEM program will be advised to take this course and this course will satisfy the STEM physics requirement.

Physics BA students are required to take one PHY3XX and one PHY4XX course as major requirement. However, we do not have many 300 and 400 level courses appropriate for these students. This new course is a good option and we expect many BA students will take this course as an elective.

The UPCC proposed this new course after thorough discussion and the proposal was approved by the general faculty in a faculty meeting on April 2, 2012.