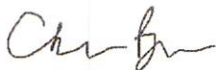November 1, 2016

Dear Undergraduate Council,

On behalf of the faculty of the College of Arts and Sciences, the Education Policy Committee discussed and approved the Physics Undergraduate Program changes proposal for their B.A. and B.S. 8:0:1 on Tuesday, November 1, 2016.

Sincerely,

Christia Brown
Chair, Education Policy Committee

From:	das@pa.uky.edu <sumitdas2000@gmail.com>
Sent:	Monday, October 17, 2016 4:19 PM
To:	Ng, Kwok-Wai; Harmon, Camille
Subject:	Re: [Fwd: RE: PHY 335]

Follow Up Flag:	Follow up
Flag Status:	Flagged

Hi Camille

This is to inform you that in a faculty meeting on April 11, 2016 the faculty decided to convert PHY 335 from 1 credit hour to 2 credit hour course

Thanks

sumit

On Fri, Oct 14, 2016 at 5:04 PM, Kwok-Wai Ng <kwng@uky.edu> wrote:

Hi Sumit,

According to Camille, since PHY335 is a major requirement so we have to make a program change for BA and BS separately in order to change the PHY335 from 1 credit hour to 2 credit hour as it appears in the bulletin after the course change proposal is approved. I have prepared the program change forms and attached with this email. I also need a memo from you (see forward message below) stating the date and outcome of the department faculty vote for this change. I think we can just use the vote in making PHY335 a 2 credit hours course, but I have forgotten the date already. You can either send the memo to me or directly to Camille, but please let me know. Thanks.

Kwok-Wai

-------- Original Message --------
Subject: RE: PHY 335
Date: Wed, 12 Oct 2016 11:44:37 -0400
From: Harmon, Camille <camille.harmon@uky.edu>
To: Ng, Kwok-Wai <kwng@uky.edu>
References:
<MWHPR03MB2605FDC1095BD23A24E8ECC29DDB0@MWHPR03MB2605.namprd03.prod.outlook.com> <57FBDA06.3040502@uky.edu>
<MWHPR03MB2605636158B3A3134A25743D9DDB0@MWHPR03MB2605.namprd03.prod.outlook.com>
<57FE57C1.9080603@uky.edu>

Good Afternoon Kwok-Wai,
Program changes are still being completed the old fashion way through PDF. I have attached the form for your reference. Please note that included with the form, I will need a memo from the department chair that includes

PLEASE NOTE: To ensure that a series of changes to an existing degree program does not essentially create a new program, the Southern Association for the Accreditation of Colleges and Schools (SACS) requires submission of its Substantive Change Checklist for every program change. Prior to college-level review, you must fill out and submit the SACS Substantive Change Checklist to the Office of Institutional Effectiveness. Contact Institutional Effectiveness (institutionaleffectiveness@uky.edu) for assistance.

Once approved at the college level, your college will send the proposal to the appropriate Senate academic council (HCCC and/or UC) for review and approval. Once approved at the academic council level, the academic council will send your proposal to the Senate Council office for additional review and then a 10-day posting online, during which senators review on their own and have an option to register an objection if they so desire. If no objection is raised to the Senate Council Office within ten days of the posting the proposal, then the program change is approved. The Senate Council Office will report approvals to the Provost, Registrar and other appropriate entities, including the contact person.

For every proposed change, you MUST also include the existing requirement.

SUMMARY OF CHANGES
Check all that apply.

☒ Courses ☐ Program name ☐ Total required credit hours ☐ Student learning outcomes
☐ Criteria for admissions/progression/termination ☐ Certificate assessment ☐ Other

1. General Information

1a Date of contact with Institutional Effectiveness (IE)[1] :

☐ Appended to the end of this form is a PDF of the reply from Institutional Effectiveness.

1b College[2]: Arts and Sciences   Department[2]: Physics and Astronomy

1c CIP code[3]:   40.0801   Today's Date: 10/12/2016

1d Current major name: (Biology, Design, etc.)   Physics   *Proposed major name:*   *no change*

1e Current Degree (BA, BFA, etc.):   BS   *Proposed degree:*   no change

1f Will there be any changes regarding a track(s) for the program?   Yes ☐   No ☒

1g Accrediting agency, if applicable:

1h Date of most recent periodic program review for this degree:

1i Requested effective date: ☒ Fall semester following approval.   OR   ☐ Specific Date[4]: *Fall 20*

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[1] Prior to college-level review, you must fill out and submit the SACS Substantive Change Checklist to the Office of Institutional Effectiveness. You can reach Institutional Effectiveness by phone or email (257-2873 or institutionaleffectiveness@uky.edu).
[2] It is not possible to change the home academic unit of a degree program via this form. To change the home unit, visit http://www.uky.edu/faculty/senate and search for forms related to academic organizational structure.
[3] The CIP code is provided by Institutional Effectiveness. If a different CIP code is necessary, the program may undergo a review similar to the new program approval process.
[4] No program change(s)will be effective until all approvals are received.

1j	Contact person name:	Kwok-Wai Ng	Phone / Email:	7-1892 / kwng@uky.edu

2. Overview of Changes

2a	Describe the rationale for the changes, including results from the most recent program review if applicable. (*450 word limit*)
	We are proposing to change the credit hour of PHY335 from one to two. This course is a requirement for BS physics. The credit hour of PHY335 in the program has to be changed accordingly if the course proposal is approved.

2b	Use the fields below, as applicable, to identify the areas in which changes will be made.		
		Current	*Proposed*
i.	Credit Hours of Premajor Courses:	28	*28*
ii.	Credit Hours of Preprofessional Courses:		
iii.	Credit Hours of Major Core Course Requirements	38	*39*
iv.	Minimum Credit Hours of Guided Electives:		
v.	Minimum Credit Hours of Free Electives:	6	*6*
vi.	Credit Hours for Track 1 (name):		
vii.	Credit Hours for Track 2 (name):		
viii.	Credit Hours for Track 3 (name):		
ix.	Credit Hours for Track 4 (name):		
x.	Credit Hours for Track 5 (name):		
xi.	Credit Hours for Required Minor:		
xii.	Total Credit Hours Required by Level: 100-level:		
	200-level:	6 hours outside of Physics at the 200+ level	*6 hours outside of Physics at the 200+ level*
	300-level:		
	400-level:		
	500-level:		
	TOTAL CREDIT HOURS REQUIRED FOR GRADUATION:	<u>120</u>	*<u>120</u>*

xv.	If the total hours required for graduation have changed, explain below. (*150 word limit*)
	There will be no change to the total number of credit hours required for graduation.

2c	Will the requested change(s) result in the use of courses from another educational unit?	Yes ☐ No ☒
	If "Yes," describe generally the courses and how they will used.	
	If "Yes," two pieces of supporting documentation are required.	

☐ Check to confirm that appended to the end of this form is a letter of support from the appropriate chair/director[5] of each unit from which individual courses will be used.

☒ Check to confirm that appended to the end of this form is verification that the chair/director of each affected unit has consent from the faculty members of the unit. This typically takes the form of meeting minutes.

2d   Will the proposed change(s) affect an associated minor?   Yes ☐   No ☒

If "Yes," the department must also submit a change form to change the minor.

3. Course Sharing

3a.   Will the requested changes result in the use of courses from another unit?   Yes ☐   No ☒
If "Yes," describe generally the courses and how they will used.

If "Yes," two pieces of supporting documentation are required.

☐ Check to confirm that appended to the end of this form is a letter of support from the other units' chair/director[6] from which individual courses will be used.

☐ Check to confirm that appended to the end of this form is verification that the chair/director of the other unit has consent from the faculty members of the unit. This typically takes the form of meeting minutes.

3. UK Core Courses

3a   Are there any proposed changes to the UK Core requirements for the program? (If "Yes," indicate and proceed to next question. If "No," indicate and proceed to 4a.)   Yes ☐   No ☒
If "Yes," note the specific changes in the grid below.

UK Core Area	Current Course	Current Credits	Proposed Course	Proposed Credits
I. Intellectual Inquiry				
Arts and Creativity				
Humanities				
Social Sciences				
Natural/Physical/Mathematical				
II. Composition and Communication				
Composition and Communication I	CIS/WRD 110	3	CIS/WRD 110	3
Composition and Communication II	CIS/WRD 111	3	CIS/WRD 111	3
III. Quantitative Reasoning				
Quantitative Foundations				
Statistical Inferential Reasoning				
IV. Citizenship (one course in each area)				
Community, Culture & Citizenship in USA				
Global Dynamics				

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[5] A dean may submit a letter only when there is no educational unit below the college level, i.e. there is no department/school.
[6] A dean may submit a letter only when there is no educational unit below the college level, i.e. there is no department/school.

	Total UK Core Hours	30		30

3b Provide the Bulletin language about UK Core.

4. Graduation Composition and Communication Requirement

4a Will the Graduation Composition and Communication requirement be changed? (If "Yes," indicate and proceed to next question. If "No," indicate and proceed to 5a.) Yes ☐ No ☒
If "Yes," note the specific changes below, including changes to credit hours.

If the course(s) used are from outside the home unit, one piece of supporting documentation is required.

☐ Check to confirm that appended to the end of this form is a letter of support from the other units' chair/director[7] from which individual courses will be used.

	Current	Proposed
i.	☐ Single course in home unit:	☐ *Single course in home unit:*
ii.	☐ Multiple courses in home unit.	☐ *Multiple courses in home unit.*
iii.	☐ Single course outside home unit.	☐ *Single course outside home unit.*
iv.	☐ Multiple courses outside home unit.	☐ *Multiple courses outside home unit.*
v.	☐ Course(s) inside & outside home unit.	☐ *Course(s) inside & outside home unit.*

4b Provide the Bulletin language about GCCR below.

5. Other Course Changes

5a Will the college-level requirements change? (If "Yes," indicate and note the specific changes in the grid below. If "No," indicate and proceed to question 5c.) Yes ☐ No ☒

Current			Proposed			
☐ Standard college requirement			☐ *Standard college requirement*			
☐ Specific course			☐ *Specific course*			

Prefix & Nmbr	Credit Hrs	Title	Prefix & Nmbr	Credit Hrs	Title	Course Status[8]
						Select one....
						Select one....
						Select one....

5b Will the existing language in the Bulletin about college-level requirements change? Yes ☐ No ☒
If "Yes," provide the new language below.

5c Will the pre-major or pre-professional course requirements change? (If "Yes," Yes ☐ No ☒

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[7] A dean may submit a letter only when there is no educational unit below the college level, i.e. there are no departments/schools.
[8] Use the drop-down list to indicate if the course is a new course ("new"), an existing course that will change ("change"), or if the course is an existing course that will not change ("no change").

indicate and note the specific changes in the grid below. If "No," indicate and proceed to question 5e.)

Current			Proposed			
Prefix & Nmbr	Credit Hrs	Title	Prefix & Nmbr	Credit Hrs	Title	Course Status[9]
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....

5d   Provide the Bulletin language about pre-major or pre-professional courses below.

5e   Will the major's core course requirements change? (If "Yes," indicate and note the specific changes in the grid below. If "No," indicate and proceed to question 5g.) If "Yes," note the specific changes in the grid below.   Yes ☒   No ☐

Current			Proposed			
Prefix & Nmbr	Credit Hrs	Title	Prefix & Nmbr	Credit Hrs	Title	Course Status[10]
PHY 335	1	Data Analysis for Physicists	PHY 335	2	Data Analysis for Physicists	Change
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....

5f   Provide the Bulletin language for major core course requirements.

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[9] Use the drop-down list to indicate if the course is new, exists but will change, or exists but will not change.
[10] Use the drop-down list to indicate if the course is new, exists but will change, or exists but will not change.

| 5g | Will the guided electives change? (If "Yes," indicate and note the specific changes in the grid below. If "No," indicate and proceed to question 5i.) | Yes ☐ | No ☒ |

Current			Proposed			
Prefix & Nmbr	Credit Hrs	Title	Prefix & Nmbr	Credit Hrs	Title	Course Status[11]
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....

| 5h | Provide the Bulletin language for guided electives. |

| 5i | Will the free electives change? (If "Yes," indicate and note the specific changes in the space below. If "No," indicate and proceed to question 5j.) | Yes ☐ | No ☒ |

| 5j | Does the proposed change affect any track(s)? (If "Yes," note the specific changes using the grid below. If "No," proceed to question 6.) | Yes ☐ | No ☒ |

If more than one track is affected, click HERE for a template. Append a PDF for each affected track to the end of this form.

| Track Name: | | ☐ New Track | ☐ Changed Track | ☐ Deleted Track |

Current			Proposed			
Prefix & Nmbr	Credit Hrs	Title	Prefix & Nmbr	Credit Hrs	Title	Course Status[12]
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....

| 5k | Provide the Bulletin language for the track. |

6. Semester by Semester Program

List below the typical semester-by-semester program for the major. If multiple tracks are available, click HERE for a template for additional tracks and append a PDF of each track's courses to the end of this form.

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[11] Use the drop-down list to indicate if the course is new, exists but will change, or exists but will not change.
[12] Use the drop-down list to indicate if the course is new, exists but will change, or exists but will not change.

YEAR 1 – FALL: (e.g. "BIO 103; 3 credits")	MA 113 Calculus I .. 4 PHY 231 General University Physics .. 4 PHY 241 General University Physics Laboratory .... 1 CHE 105 General College Chemistry I .... 4 CIS/WRD 110 Composition and Communication I ... 3	**YEAR 1 – SPRING:**	*MA 114 Calculus II .... 4 PHY 228 Optics, Relativity and Thermal Physics .... 3 CHE 107 General College Chemistry II .... 3 *CS 115 Introduction to Computer Programming or Major Related Electives .... 3 CIS/WRD 111 Composition and Communication II 3*
YEAR 2 - FALL :	MA 213 Calculus III .. 4 PHY 232 General University Physics ..... 4 PHY 242 General University Physics Laboratory .... 1 PHY 335 Data Analysis for Physicists .... 2 Foreign Language 4	**YEAR 2 – SPRING:**	*MA 214 Calculus IV .... 3 PHY 306 Theoretical Methods of Physics .... 3 PHY 361 Principles of Modern Physics .... 3 Foreign Language ...... 4 UK Core 3*
YEAR 3 - FALL:	PHY 404G Mechanics .... 3 PHY 416G Electricity and Magnetism .... 3 UK Core .... 3 Foreign Language .... 3 *MA 322 Matrix Algebra and Its Applications or Major Related Electives 3	**YEAR 3 - SPRING:**	*PHY 417G Electricity and Magnetism .... 3 Foreign Language ...... 3 UK Core .... 3 Major Related Electives .... 3 Elective 3*
YEAR 4 - FALL:	PHY 402G Electronic Instrumentation and Measurements.......3 PHY 520 Introduction to Quantum Mechanics I .... 3 PHY 522 Thermodynamics and Statistical Physics (suggested) .... 3 PHI 300+ course ...... 3 Elective 3	**YEAR 4 - SPRING:**	*PHY 521 Introduction to Quantum Mechanics II .... 3 PHY 535 Advanced Physics Laboratory .... 3 Social Sciences 300+ .... 3 Elective 4*

7. Approvals/Reviews

Information below does not supersede the requirement for individual letters of support from educational unit administrators and verification of faculty support (typically takes the form of meeting minutes).

In addition to the information below, attach documentation of department and college approval. This typically takes the form of meeting minutes but may also be an email from the unit head reporting department- and college-level votes.

Reviewing Group Name	Date Approved	Contact Person Name/Phone/Email
7a (Within College)	/ /	

		Christia Brown	/	/	*Ch~fr~*
EPC					
A&S Assoc. Dean		Anna Bosch	/	/	*AmklBoch*
			/	/	

7b (Collaborating and/or Affected Units)

			/	/	
			/	/	
			/	/	
			/	/	
			/	/	

7c (Senate Academic Council) | **Date Approved** | **Contact Person Name**

| Health Care Colleges Council (if applicable) | | |
| Undergraduate Council | 11/15/16 | Joanie Ett-Mims |