UNIVERSITY FACULTY SENATE FORMS

Academic Program Approval

This form is a routing document for the approval of new and revised academic programs. Proposing department should complete this form. For more information, call the Faculty Senate Office at 831-2921.

Submitted by: Norbert Mulders	phone number_3517
Department: _Phyisics and Astronomy	email address_mulders@udel.edu
Action:Revise BA physics Education (Example: add major/minor/concentration, delete ma major/minor/concentration, academic unit name change, reques	jor/minor/concentration, revise st for permanent status, policy change, etc.)
Effective term08F (use format 04F, 05)	
Current degreeBABA, BACH, BACJ, HBA, EDD,	, MA, MBA, etc.)
Proposed change leads to the degree of:BA	A BACH, BACJ, HBA, EDD, MA, MBA, etc.)
Proposed name: Proposed new name for revised or new major (if applicable)	/ minor / concentration / academic unit
Revising or Deleting:	
Undergraduate major / Concentration: (Example: Appl	_ Physics Education lied Music – Instrumental degree BMAS)
Undergraduate minor:	
	ess Administration, English, Leadership, etc.)
Graduate Program Policy statement change: (Must ad	the h array (and the to Decomp Deliver (to the most))
	ttach your Graduate Program Policy Statement)
Graduate Program of Study: (Example: Animal Science: MS Animal Science)	nce: PHD Economics: MA Economics: PHD)
Graduate minor / concentration:	
Note: all graduate studies proposals must include an Program Policy Document, highlighting the changes	

List new courses required for the new or revised curriculum. How do they support the overall program objectives of the major/minor/concentrations)? (Be aware that approval of the curriculum is dependent upon these courses successfully passing through

the Course Challenge list. If there are no new courses enter "None")

PHYS 211, Oscillations and Waves. This course fills a major gap in the introductory physics sequence that has gradually developed with the shift of emphasis in PHYS 310 to Modern Physics.

Explain, when appropriate, how this new/revised curriculum supports the 10 goals of undergraduate education: <u>http://www.ugs.udel.edu/gened/</u>

Identify other units affected by the proposed changes:

(Attach permission from the affected units. If no other unit is affected, enter "None") NONE

Describe the rationale for the proposed program change(s):

(Explain your reasons for creating, revising, or deleting the curriculum or program.)

1) Over time, a large gap has developed in our introductory physics sequence. This mainly affects the physics majors (the engineering majors for whom the missing material is also of importance, typically encounter this material in courses in their own major). To fill the gap we are introducing a third course, PHYS 211, which deals mainly with oscillations and waves, and is intended as a stepping stone towards courses as quantum mechanics, optics and classical mechanics.

Program Requirements:

(Show the new or revised curriculum as it should appear in the Course Catalog. If this is a revision, be sure to indicate the changes being made to the current curriculum and **include a side-by-side comparison** of the credit distribution before and after the proposed change.)

See attached document.

ROUTING AND AUTHORIZATION:

(Please do not remove supporting documentation.)

Department Chairperson	Date
Dean of College	Date
Chairperson, College Curriculum Committee	Date
Chairperson, Senate Com. on UG or GR Studies	Date
Chairperson, Senate Coordinating Com.	Date
Secretary, Faculty Senate	Date
Date of Senate Resolution	Date to be Effective
RegistrarProgram Code	Date
Vice Provost for Academic Programs & Planning	Date
Provost	Date
Board of Trustee Notification	Date