

C - Small Curricular Revisions : Entry # 2710**Today's Date**

02/21/2023

Your Name

Dandrielle Lewis

Your Email:dlewis1@highpoint.edu**Department Chair Name**

Dandrielle Lewis

Email address of your department chairdlewis1@highpoint.edu

By checking below I am certifying that my department chair (named above) has seen and approved the courses that are included in this proposal.

Yes

Please select the appropriate school overseeing this proposal:

Engineering

Does this proposal correspond to a particular term?

Fall 2023

Which category does this change fall under?

- Course description

Changes to course number, name, and/or description

Current Course Number & Name (prefix and number)

MTH/PHY
2050

Proposed New Course Number & Name

Proposed new description

An introduction to the applications of mathematical techniques to physical problems in mechanics, classical field theory, and electronic circuits. Topics include the use of differential equations and complex numbers in modeling mechanical systems, multivariable calculus and vector analysis. This course cannot be used for the major in mathematics. This course can be used for the minor in mathematics. Prerequisites: PHY 2010 and either MTH 1420 or MTH 1425. This course is offered in the fall. Four credits.

Brief rationale for change

This course can now be used for the Mathematics minor.

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Current Course Number & Name (prefix and number)	Proposed New Course Number & Name	Proposed new description	Brief rationale for change
MTH/PHY 2150		An introduction to the use of Fourier analysis and partial differential equations in various areas of physics with an emphasis on quantum and statistical mechanics. Topics include the use of Fourier methods in detecting extrasolar planets, driven oscillations, modeling heat flow using partial differential equations and an introduction to the mathematical analysis of quantum mechanical systems. This course cannot be used for the major in mathematics. This course can be used for the minor in mathematics. Prerequisite: MTH/PHY 2050. This course is offered in the spring. Four credits.	This course can now be used for the Mathematics minor.
Rationale for above changes			
This change will allow Physics and Engineering students to use these courses as electives for the Mathematics minor..			
Does this change affect any other departments, schools, or programs besides your own? If so, please describe your consultation process with affected parties.			
I discussed these changes to the course descriptions with Dr. Briana Fiser, Chair of the Department of Physics, as the course is cross-listed with Physics. Dr. Fiser agrees with the changes to both course descriptions. Dr. Claire McCullough was informed fall 2022 that Mathematical Sciences discussed and approved allowing the two courses to count towards the Mathematics minor..			
Dean Review			
[DEAN] I approve/deny this proposal			
Approve			
Today's Date			
21-02-2023			
Name of Dean (if this is being reviewed by multiple deans, please indicate who approved it first here)			
Dean Michael Oudshoorn			
Comments			
I raised the changes with Electrical and Computer Engineering (ECE) since these courses are primarily for Physics and Engineering students as the name suggests. ECE has no objections however they wish that they had been included in recent discussions prior to submission of the proposal. The course is to remain a service course supporting Physics and Engineering. Content should not be modified to align it with the current Calc I-III courses etc.			