Course Change Request

Date Submitted: 04/19/19 12:46 pm

In Workflow **Viewing: PHYS 251 : Introduction to Computer Techniques in** 1. PHYS UG **Physics** Committee 2. PHYS Chair Last approved: 02/22/19 4:26 am 3. SC Curriculum Last edit: 04/19/19 12:46 pm Committee Changes proposed by: prubin 4. SC Associate Dean 5. Assoc Provost-~ Astronomy (ASTR) **Catalog Pages** Undergraduate Department of Physics and Astronomy referencing this 6. Registrar-Courses Physics (PHYS) course 7. Banner SC-BS-ASTR: Astronomy, BS Programs SC-BS-PHYS: Physics, BS Approval Path 1. 05/15/19 1:02 pm Select modification type: Philip Rubin (prubin): Approved Simple for PHYS UG **Substantial** Committee 2. 05/15/19 4:38 pm Are you completing this form on someone else's behalf? Paul So (paso): Approved for PHYS No Chair Effective Term: Fall 2019 Subject Code: Course Number: **PHYS - Physics** 251 History **Bundled Courses:** 1. Aug 25, 2017 by pchampan Is this course replacing another course? No 2. Feb 22, 2019 by Equivalent **Gregory Craft** Courses: (gcraft) **Catalog Title:** Introduction to Computer Techniques in Physics Banner Title: Intro Comp Tech in Phys Will section titles No vary by semester? Credits: 3 Schedule Type: Lecture Hours of Lecture or Seminar per 3 week: **Repeatable:** Max Allowable May be only taken once for credit, limited to 9 Credits: 3 attempts (N3) **Default Grade** Undergraduate Regular Mode: Recommended Prerequisite(s):

Recommended Corequisite(s): Required Prerequisite(s) / Corequisite(s) (Updates only):

PHYS 160 or PHYS 170

Registrar's Office Use Only - Required Prerequisite(s)/Corequisite(s):

And/Or	(Course/Test Code	Min Grade/Score	Academic Level)	Concurrency?
		PHYS 160	С	UG		
Registration Restrictions						

(Updates only):

Registrar's Office Use Only - Registration Restrictions:

Field(s) of Study: Class(es):

Level(s):

Degree(s):

School(s):

Catalog Introduction to using computers in physics based on examples from mechanics and astronomy.

Description:

Justification: PHYS 160 and PHYS 170 are equivalent

Does this course cover material which No crosses into another department?

Learning Outcomes:

Attach Syllabus

Additional Attachments

 Specialized Course
 Mason Core

 Categories:
 Select the Mason Core Requirement the course is proposing to fulfill:

 Foundation
 Information Technology and Computing

 Courses:
 Exploration

 Courses:
 Information Technology and Computing

 Integration
 Courses:

Information Technology and Computing

Course must meet the following learning outcomes:

1. Students will be able to use technology to locate, access, evaluate, and use information, and appropriately cite resources from digital/electronic media.

2. Students will understand the core IT concepts in a range of current and emerging technologies and learn to apply appropriate technologies to a range of tasks.

Course must meet one additional learning outcome:

3. Students will understand many of the key ethical, legal and social issues related to information technology and how to interpret and comply with ethical principles, laws, regulations, and institutional policies.

4. Students will demonstrate the ability to communicate, create, and collaborate effectively using state-of-the-art information technologies in

multiple modalities.

5. Students will understand the essential issues related to information security, how to take precautions and use techniques and tools to defend against computer crimes.

I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see "?" for help with submission)

Additional

Comments:

Reviewer Comments

Key: 12504