# **Course Change Request**

Date Submitted: 02/26/18 10:36 am

**Viewing: PHYS 346: Quarks to Strings** 

Last approved: 08/25/17 4:17 am

Last edit: 02/26/18 10:36 am

Changes proposed by: prubin

Catalog Pages referencing this course

**Department of Physics and Astronomy** 

Physics (PHYS)

### In Workflow

- 1. PHYS UG Committee
- 2. PHYS Chair
- 3. SC Curriculum Committee
- 4. SC Associate Dean
- 5. Registrar-Courses
- 6. Banner

### **Approval Path**

- 03/12/18 10:44 am
   Philip Rubin
   (prubin): Approved
   for PHYS UG
   Committee
- 2. 03/12/18 12:10 pm Paul So (paso): Approved for PHYS Chair

# History

 Aug 25, 2017 by Priyanka Champaneri (pchampan)

# Select modification type:

**Specialized Course Designation** 

Simple

Are you completing this form on someone else's behalf?

No

Effective Term: Fall 2018

Subject Code:	PHYS - Physics		Course Number:
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346

**Bundled Courses:** 

Equivalent Courses:

Catalog Title: Quarks to Strings

**Banner Title:** Quarks to Strings

Will section titles No

vary by semester?

Credits: 3

Schedule Type: Lecture

Hours of Lecture or Seminar per 3

week:

**Repeatable:** May only be taken once for credit (NR)

**Default Grade** 

Undergraduate Regular

Mode:

Recommended Prerequisite(s):

Recommended Corequisite(s):

Required

Prerequisite(s) /

Corequisite(s)

(Updates only):

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

And/Or	(	Course/Test Code	Min Grade/Score	Academic Level	)	Concurrency?
		PHYS 262	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 Description:  An non-technical introduction to the Standard Model of Elementary Particles and String Theory, in the context of the philosophy of science. Conceptual mastery will be demonstrated through writing assignments rather than calculations. Notes: This course does not satisfy elective-category requirements for the physics and astronomy majors. PHYS elective requirement.
Justification: Since restructuring, the PHYS elective requirement no longer exists, replaced by concentration-specific electives.
Does this course cover material which NO crosses into another department?
Learning Outcomes:
Attach Syllabus (PDFs only)
Additional Attachments (PDFs only)
Specialized Course Categories: Mason Core
Select the Mason Core Requirement the course is proposing to fulfill:
Foundation Courses:
Exploration Courses:
Integration Courses: Synthesis

### **Synthesis**

#### Course must meet learning outcomes 1 and 2:

- 1. Communicate effectively in both oral and written forms, applying appropriate rhetorical standards (e.g., audience adaptation, language, argument, organization, evidence, etc.)
- 2. Using perspectives from two or more disciplines, connect issues in a given field to wider intellectual, community or societal concerns

#### Course must meet one additional learning outcome:

- 3a) Apply critical thinking skills to evaluate the quality, credibility and limitations of an argument or a solution using appropriate evidence or resources OR
- 3b) Apply critical thinking skills to judge the quality or value of an idea, work, or principle based on appropriate analytics and standards

Describe the overall rationale for designating this course as Synthesis Mason Core.

previously approved

For each learning outcome, what assignments or activities will you give that allow students to demonstrate their competence on each outcome? Please confirm these are reflected in the attached syllabus or uploaded as additional documents as needed.

previously approved

Additional

**Comments:** 

administrative changes made for CIM launch

Reviewer

**Comments**