

## Course Change Request

Date Submitted: 04/23/18 11:53 am

Viewing: **ASTR 402 : RS: Methods of Observational Astronomy**

Last approved: 11/13/17 4:20 am

Last edit: 04/23/18 11:53 am

Changes proposed by: prubin

Catalog Pages referencing this course: [Astronomy \(ASTR\)](#)  
[Department of Physics and Astronomy](#)

Programs referencing this course: [ASTR: Astronomy Minor](#)  
[SC-BS-ASTR: Astronomy, BS](#)

### In Workflow

1. **PHYS UG Committee**
2. **PHYS Chair**
3. **SC Curriculum Committee**
4. SC Associate Dean
5. Assoc Provost-Undergraduate
6. Registrar-Courses
7. Banner

Select modification type:  
 Substantial

### Approval Path

1. 05/07/18 10:19 am  
Philip Rubin (prubin): Approved for PHYS UG Committee
2. 05/07/18 11:46 am  
Paul So (paso): Approved for PHYS Chair

Are you completing this form on someone else's behalf?  
 No

Effective Term: Spring 2019

Subject Code: ASTR - Astronomy      Course Number: 402

Bundled Courses:

Equivalent Courses:

Catalog Title: RS: Methods of Observational Astronomy

Banner Title: RS:Methods Observational Astro

Will section titles vary by semester?  
 No

Credits: 4

Schedule Type: Lecture w/Lab

Hours of Lecture or Seminar per week: 3

Hours of Lab or Studio per week: 3

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

Default Grade Mode: Undergraduate Regular

Recommended Prerequisite(s):

Recommended Corequisite(s):

Required Prerequisite(s) / Corequisite(s) (Updates only): **PHYS 260, ASTR 124, ASTR 210, and at least one of ASTR 328, 403, 420, 480**  
~~ASTR 401 (corequisite) PHYS-260.~~

### History

1. Aug 25, 2017 by  
Priyanka Champaneri (pchampan)
2. Nov 13, 2017 by  
Philip Rubin (prubin)

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

And/Or	(	Course/Test Code	Min Grade/Score	Academic Level	)	Concurrency?
		ASTR 210	C	UG		
And		PHYS 260	C	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 introduction to the observational, statistical, and computational techniques used by observational astronomers. The course covers some of the basic skills needed to pursue a career in astronomy and is designed around preparing for and executing an observational research project. Fulfills writing intensive requirement in the major.

**Justification:** **The additional prereqs and coreq are needed for student success in ASTR 402. Requisite should be required.**

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

**Learning Outcomes:**

**Attach Syllabus (PDFs only)**

**Additional Attachments (PDFs only)**

**Specialized Course Categories:** Mason Core  
Research/Scholarship Intensive  
Writing Intensive

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

**Foundation Courses:**

**Exploration Courses:**

**Integration Courses:** Capstone

## Application for RS Designation

Select the requested Research/Scholarship designation:

Research/Scholarship Intensive (RS)

### Research/Scholarship Intensive (RS)

Course must meet at least one of the below methods outcomes:

- Appropriately analyze scholarly evidence
- Choose an appropriate research method for scholarly inquiry
- Gather and evaluate evidence appropriate to the inquiry

Select any additional SaS learning outcomes which the course meets:

Describe how the course meets the required student learning outcomes and the selected methods outcome(s):  
previously approved

How will the course be supported by the appropriate subject area librarian?  
previously approved

**Attach Curriculum Map (PDFs only)** [The designation for the course was previously approved.pdf](#)

Please affirm the following:

List Responsible Faculty Members:	Faculty Member Name	Faculty Member email
	previously approved	previously approved

The department has or will have an undergraduate research student learning outcome and will use the data from this course in Academic Program Review.

Yes

**Capstone**

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Explain how the course meets the expectations that the capstone experience consolidates the knowledge and understanding gained in the student's major, degree, and Mason Core Courses.

previously approved

**Additional  
Comments:**

**Reviewer  
Comments**

Key: 909