

# Course Change Request

Date Submitted: 03/08/22 2:04 pm

Viewing: **PHYS 533 : Modern Instrumentation**

Last approved: 05/21/21 5:04 am

Last edit: 03/08/22 2:04 pm

Changes proposed by: ebarreto

Catalog Pages  
referencing this  
course

[Department of Physics and Astronomy](#)  
[Physics \(PHYS\)](#)

Select modification type:

Simple

Substantial

## In Workflow

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

## Approval Path

1. 03/09/22 12:39 pm  
Ernest Barreto (ebarreto):  
Approved for PHYS GR Committee
2. 03/09/22 12:42 pm  
Paul So (paso):  
Approved for PHYS Chair

## History

1. Nov 20, 2020 by  
Tory Sarro (vsarro)
2. May 21, 2021 by  
Tory Sarro (vsarro)

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

No

**Effective Term:** Fall 2022

**Subject Code:** PHYS - Physics

**Course Number:** 533

**Bundled Courses:**

**Is this course replacing another course?** No

**Equivalent Courses:** CHEM 620 - Modern Instrumentation

**Catalog Title:** Modern Instrumentation

**Banner Title:** Modern Instrumentation

**Will section titles vary by semester?** No

**Credits:** 3

**Schedule Type:** Lecture

**Hours of Lecture or Seminar per week:** 3

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

**Default Grade Mode:** Graduate Regular

**Recommended Prerequisite(s):**  
**PHYS 513 or 685**

**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 513         | B-              | GR             |   |              |
| Or     |   | PHYS 513         | XS              | GR             | ) |              |

**Registration Restrictions**

**(Updates only):****Registrar's Office Use Only - Registration Restrictions:****Field(s) of Study:****Class(es):**

Include

Limited to students with a class of Senior Plus (SCRRCLS\_ONLY\_SP)

Limited to students with a class of Non Degree (SCRRCLS\_ONLY\_ND)

Limited to students with a class of Advanced to Candidacy. (SCRRCLS\_ONLY\_DC)

Limited to students with a class of Graduate. (SCRRCLS\_ONLY\_GR)

Limited to students with a class of Junior Plus (SCRRCLS\_ONLY\_JP)

**Level(s):**

Include

Enrollment limited to students with a level of Non-Degree (SCRRLVL\_ONLY\_ND)

Limited to undergraduate level students. (SCRRLVL\_ONLY\_UG)

Limited to graduate level students only. (SCRRLVL\_ONLY\_GR)

**Degree(s):**

Exclude

Non-Degree Undergraduate Degree students may not enroll. (SCRREDEG\_NO\_NDU)

**School(s):****Catalog****Description:**

Topics include sensors for radiation, particles, electric and magnetic fields, pressure, and motion; electronic instruments, computer data collection, instrumentation noise and noise reduction methods; and specialized instrumentation systems for various areas of applied physics.

**Justification:**

What: Change the required prerequisite to a recommended prerequisite. Also, add 685 (which is a more advanced version of 513) as an alternate recommended prerequisite.

Why: Graduate students who did not attend GMU have unnecessary trouble registering for this course. We wish to remove this impediment. Also, some students who take this course have taken 685 instead of 513.

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

**Learning Outcomes:****Attach Syllabus**

**Additional Attachments**

**Specialized Course Categories:**

**Additional Comments:**

**Reviewer Comments**

Key: 12581