

Course Change Request

Date Submitted: 02/05/21 10:56 pm

Viewing: **PHYS 306 : Wave Motion and Electromagnetic Radiation**

Last approved: 11/12/20 4:55 am

Last edit: 02/05/21 10:56 pm

Changes proposed by: prubin

**Catalog Pages
referencing this
course**

[Department of Electrical and Computer Engineering](#)

[Department of Physics and Astronomy](#)

Select modification type:

Substantial

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

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

Approval Path

1. 03/24/21 12:39 am
Philip Rubin
(prubin): Approved for PHYS UG Committee
2. 03/24/21 9:25 am
Paul So (paso): Approved for PHYS Chair

History

1. Feb 22, 2019 by Gregory Craft (gcraft)
2. Nov 12, 2020 by Johanna Riemen (jriemen)

No

Effective Term: Fall 2022**Subject Code:** PHYS - Physics**Course Number:** 306**Bundled Courses:****Is this course replacing another course?** No**Equivalent Courses:****Catalog Title:** Wave Motion and Electromagnetic Radiation**Banner Title:** Wave Motn Electromag Rad**Will section titles vary by semester?** No**Credits:** 3**Schedule Type:** Lecture**Hours of Lecture or Seminar per week:** 3**Repeatable:** May be only taken once for credit, limited to 3 attempts (N3) **Max Allowable Credits:** 9**Default Grade Mode:** Undergraduate Regular**Recommended Prerequisite(s):****Recommended Corequisite(s):**~~MATH 214.~~**Required Prerequisite(s) / Corequisite(s) (Updates only):****PHYS 301 and PHYS 305****Registrar's Office Use Only - Required Prerequisite(s)/Corequisite(s):**

And/Or	(Course/Test Code	Min Grade/Score	Academic Level)	Concurrency?
		PHYS 305	C	UG		
Or		PHYS 305	XS	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:

Vibrating string, plane waves, interference, diffraction, polarization, electromagnetic waves, dispersion, and relativity.

Justification:

Students taking the equivalent of PHYS 305 rather than PHYS 305 to satisfy the prerequisite for PHYS 306 have consistently lacked the mathematical foundation to complete PHYS 306 successfully. PHYS 301 is required for PHYS 305, but courses equivalent to PHYS 305 apparently are not requiring the necessary advanced mathematics for PHYS 306 coursework.

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

Learning Outcomes:

Attach Syllabus

**Additional
Attachments**

**Specialized Course
Categories:**

**Additional
Comments:**

**Reviewer
Comments**

