

Program Change Request

Date Submitted: 10/04/18 3:30 pm

Viewing: **MINOR-PHYS : Physics - Minor**

Last approved: 08/30/16 10:11 am

Last edit: 11/08/18 8:35 pm

Changes proposed by: skessler

Catalog Pages Using
this Program

[Physics - Minor](#)

In Workflow

1. **PHYS Department Head**
2. **Curricular Services Review**
3. **SC Committee Preparer UG**
4. **SC Committee Chair UG**
5. **SC College Dean UG**
6. **UCC Preparer**
7. **UCC Chair**
8. **Faculty Senate Preparer**
9. Faculty Senate
10. Provost II
11. President
12. Curricular Services

Approval Path

1. 09/27/18 11:17 am
Lewis Ford (a-ford):
Approved for PHYS
Department Head
2. 10/04/18 10:26 am
Angel Mario Carrizales
(carri1214): Rollback to
Initiator
3. 10/05/18 6:22 am
Lewis Ford (a-ford):
Approved for PHYS
Department Head
4. 10/05/18 5:31 pm
Angel Mario Carrizales
(carri1214): Approved
for Curricular Services
Review
5. 10/08/18 8:53 am
Sara Thigpin
(sarathigpin): Approved
for SC Committee
Preparer UG
6. 10/08/18 9:14 am
Lucas Macri (lmacri):
Approved for SC
Committee Chair UG
7. 10/08/18 9:14 am
Lucas Macri (lmacri):
Approved for SC College
Dean UG
8. 10/08/18 2:02 pm
Sandra Williams
(sandra-williams):
Approved for UCC
Preparer
9. 11/05/18 3:22 pm
Sandra Williams
(sandra-williams):
Approved for UCC Chair

Contact(s)

Name	E-mail	Phone
Sherree Kessler	skessler@tamu.edu	979-458-5948

Academic level	Undergraduate
Effective Term	2019-2020
Department	Physics and Astronomy
College	Science
Program type	Minor
With a minor in	Physics (PHYS)
Associated Program	Not Applicable

Catalog Program Title
Physics - Minor

Rationale for Proposal

Currently the catalog and the degree evaluation do not match in two areas.

On the degree evaluation, PHYS 331 and 332 are excluded from fulfilling the minor requirements. In the catalog, no distinction is made. The Dept. UCC has determined that PHYS 331 and 332 have a strong Physics focus and are acceptable courses for the minor.

On the degree evaluation, each PHYS class for the minor is required to be completed with a C or better. In the catalog, only PHYS 218, 208 and 221 are marked as requiring a C or better. The Dept. UCC would like to require a C or better in all courses for the PHYS minor.

Additionally, the Dept. UCC would like to exclude PHYS 491 and PHYS 485 from counting as the upper-division elective in the minor. Since these are not classes, they do not meet the intent of the Physics minor.

Due to the change in numbering for PHYS 218 and 208, as well as the associated labs, PHYS 218 will now be PHYS 206 and PHYS 208 will be PHYS 207, which are 3 hour courses. Non-engineering students will take the one hour labs, PHYS 226 and 227. Engineering majors will be required to take the two hour labs, PHYS/ENGR 216 and PHYS/ENGR 217, which are part of their degree requirements. The minor will have a note that 216 and 217 are required for engineering majors.

Program hours	17
Is this program eligible for financial aid?	Yes
Will program hours change (increase/decrease) due to the proposed curriculum changes?	No

Catalog Program Requirements

History

1. Aug 30, 2016 by Sandra Williams (sandra-williams)

Students who wish to complete a minor in physics must satisfy the following requirements:

Code	Title	Course List	Semester Credit Hours
PHYS 218	Mechanics 1		4
PHYS 208	Electricity and Optics 1		4
<u>PHYS 206</u>	<u>Newtonian Mechanics for Engineering and Science</u>		<u>4</u>
<u>& PHYS 226</u>	<u>and Physics of Motion Laboratory for the Sciences 1</u>		
<u>PHYS 207</u>	<u>Electricity and Magnetism for Engineering and Science</u>		<u>4</u>
<u>& PHYS 227</u>	<u>and Electricity and Magnetism Laboratory for the Sciences 1</u>		
<u>PHYS 221</u>	Optics and Thermal Physics		3
<u>PHYS 309</u>	Modern Physics		3
<u>300-400 level physics elective</u>	2		3
Total Semester Credit Hours			17

1 All Engineering majors will take [ENGR 216/PHYS 216](#) and [ENGR 217/PHYS 217](#) in place of [PHYS 226](#) and [PHYS 227](#).

2 Select from [PHYS 300-499](#) (except [PHYS 485](#) or [PHYS 491](#)), or [ASTR 314](#), in consultation with an advisor in the Department of Physics and Astronomy.

Students must make a grade of "C" or better in all courses.

Additional information

Required Proposal Forms [Updated Degree Eval - PHYS minor - Fall 2019 - 2.pdf](#)

Reviewer Comments

Angel Mario Carrizales (carri1214) (10/04/18 10:25 am): Edits made to conform to catalog style guidelines.

Angel Mario Carrizales (carri1214) (10/04/18 10:26 am): Rollback: Footnote 1 includes ENGR/PHYS 216 and ENGR/PHYS 217; however, the evaluation does not. Please add these course to the evaluation (Rule A and B). Also, only include the page of the evaluation that contains the minor coursework

Angel Mario Carrizales (carri1214) (10/05/18 5:26 pm): Initial concerns addressed.

Sandra Williams (sandra-williams) (11/05/18 3:22 pm): UCC approved November 2018.

Key: 100

Take POLS 206 and POLS 207.

Total Credits and GPA

unofficial evaluation

Area : Writing Requirement (3.000 credits) - Not Met

Description : This area requires 3 hours of courses with the UWRT and UCRT attribute.

Met	Condition	Rule	Subject	Attribute	Low	High	Required	Required	Term	Subject	Course	Title	Attribute	C
							Credits	Courses						

No		A.	Writing Requirement												
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Only sections of PHYS 327 with the Writing attribute [UWRT] and sections of PHYS 328 with the Communication attribute [UCRT] may be used to satisfy this requirement.

Total Credits and GPA

unofficial evaluation

Area : General Electives (6.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required	Required	Term	Subject	Course	Title	Attribute	Credits
							Credits	Courses						

No		A.	General Electives 6hrs												
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Select any 100-499 course not used elsewhere. (except MATH 100-148, 165-166, 365-366; PHYS 201-202, 207-208.)

Total Credits and GPA 0.000

unofficial evaluation

Area : Work Not Applied - Met

Description : See advisor for acceptable substitutions.

Met	Condition	Rule	Subject	Attribute	Low	High	Required	Required	Term	Subject	Course	Title	Attribute	C
							Credits	Courses						

No		A.	Courses not applied												
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Total Credits and GPA

unofficial evaluation

Area : Physics Minor (17.000 credits) - Not Met

Description : Minimum of 6 hours at 300-400 level. No grades below a "C" are acceptable.

Met	Condition	Rule	Subject	Attribute	Low	High	Required	Required	Term	Subject	Course	Title	Attribute	C
							Credits	Courses						

No		A.	PHYS 218												
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Must make a grade of 'C' or better.

PHYS 206; and ENGR/PHYS 216 or PHYS 206

No	AND	B.	PHYS 208												
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Must make a grade of 'C' or better.

PHYS 207; and ENGR/PHYS 217 or PHYS 207

No	AND	C.	PHYS 221												
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Must make a grade of 'C' or better.

No	AND	D.	PHYS 309												
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Must make a grade of 'C' or better.

No	AND	E.	Upper-Level PHYS 3hrs												
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Must make a grade of 'C' or better.
 Select from PHYS 300-399 (except ~~PHYS 331-332~~ ^{→ 485 or 491}), or ASTR 314 in consultation with a Department of Physics Advisor.
 and Astronomy

Total Credits and GPA

unofficial evaluation

Area : University Writing Requirement - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Required Term	Subject	Course Title	Attribute	Credits
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No	A.		Writing Requirement										
				Two courses required. Only sections of PHYS 327 with the Writing attribute [UWRT] and sections of PHYS 328 with the Communication attribute [UCRT] may be used to satisfy this requirement.									

Total Credits and GPA 0.000

unofficial evaluation

Area : Int'l & Cult Diversity - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Required Term	Subject	Course Title	Attribute	Credits
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No	A.		Int'l & Cultural Diversity 6hr										
				Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).									

Total Credits and GPA 0.000

unofficial evaluation

Area : Foreign Language - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Required Term	Subject	Course Title	Attribute	Credits
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No	A.		Foreign Language Rqmt										
				Complete one of the following: 1. Two years of the same foreign language in High School. 2. A two semester sequence of the same foreign language for University credit.									

Total Credits and GPA 0.000

unofficial evaluation

Area : Residence Requirement - Not Met

Description : A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Required Term	Subject	Course Title	Attribute	Credits
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No			A.	Residence - Major	12hrs								
No	AND		B.	Residence 300-499	24hrs								

Total Credits and GPA

unofficial evaluation