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

Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
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</thead>
<tbody>
<tr>
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</tbody>
</table>

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

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 2:02 pm Sandra Williams (sandawilliams): Approved for UCC Preparer
7. 10/08/18 9:14 am Lucas Macri (lmacri): Approved for SC Committee Chairman UG
8. 10/08/18 9:14 am Lucas Macri (lmacri): Approved for SC College Dean UG
9. 11/05/18 3:22 pm Sandra Williams (sandawilliams): Approved for UCC Chair
## Catalog Program Requirements

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 218</td>
<td>Mechanics 1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 208</td>
<td>Electricity and Optics 1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 206</td>
<td>Newtonian Mechanics for Engineering and Science</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 226</td>
<td>and Physics of Motion Laboratory for the Sciences 1</td>
<td></td>
</tr>
<tr>
<td>PHYS 207</td>
<td>Electricity and Magnetism for Engineering and Science</td>
<td>4</td>
</tr>
<tr>
<td>&amp; PHYS 227</td>
<td>and Electricity and Magnetism Laboratory for the Sciences 1</td>
<td></td>
</tr>
<tr>
<td>PHYS 221</td>
<td>Optics and Thermal Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 309</td>
<td>Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>300–400 level physics elective 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

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**

- 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.
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 Credits Courses

No A. Writing Requirement
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.

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 Courses

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

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 Credits Courses

No A. Courses not applied

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 Credits Courses

No A. PHYS 240
Must make a grade of "C" or better.

No AND B. PHYS 300
Must make a grade of "C" or better.

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

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

No AND E. Upper-Level PHYS 3hrs

unofficial evaluation

Area: University Writing Requirement - Not Met  
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses  
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.  

unofficial evaluation

Area: Int'l & Cult Diversity - Not Met  
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses  
No A. Int'l & Cultural Diversity 6hr  
Select from courses with the International and Cultural  
University attribute [UICD] (except sections of BUSN 289 with  
the UWRT attribute).  

unofficial evaluation

Area: Foreign Language - Not Met  
Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Courses  
No A. Foreign Language Reqmt  
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.  

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

unofficial evaluation