

Date Submitted: 09/19/18 9:36 am

Viewing: **PHYSBS : Physics, Bachelor of Science**

Last approved: 05/22/18 6:02 pm

Last edit: 10/16/18 4:07 pm

Changes proposed by: jkennef

Catalog Pages Using this Program

[Physics \(PHYS\)](#)

Submitter:	User ID:	lkulcza	Phone:
7456			
Program Status	Active		
Academic Level	Undergraduate		
Type of proposal	Major/Field of Study		
Select a reason for this modification			
Making Minor Changes to an Existing Degree (e.g. changing 15 or fewer hours, changing admission/graduation requirements, adding Focused Study)			
Are you adding a concentration?			
No			
Are you adding a track?			
No			
Are you adding a focused study?			
No			
Effective Catalog Year	Fall 2019		
College/School Code	Fulbright College of Arts and Sciences (ARSC)		
Department Code	Department of Physics(PHYS)		
Program Code	PHYSBS		

In Workflow

1. ARSC Dean Initial
2. Director of Program Assessment and Review
3. Registrar Initial
4. Institutional Research
5. PHYS Chair
6. ARSC Curriculum Committee
7. ARSC Dean
8. Global Campus
9. Provost Review
10. University Course and Program Committee
11. Faculty Senate
12. Provost Final
13. ADE Licensure Approval
14. Provost's Office-- Notification of Approval
15. Registrar Final
16. Catalog Editor Final

Approval Path

1. 09/05/18 3:45 pm
Jeannine Durdik (jdurdik): Approved for ARSC Dean Initial
2. 09/07/18 11:44 am
Alice Griffin (agriffin): Rollback to Initiator

Degree Bachelor of Science

CIP Code

3. 09/19/18 10:03 am
Jeannine Durdik
(jdurdik): Approved
for ARSC Dean
Initial
4. 09/21/18 8:24 am
Alice Griffin
(agriffin): Approved
for Director of
Program
Assessment and
Review
5. 09/24/18 11:32 am
Lisa Kulczak
(lkulcza): Approved
for Registrar Initial
6. 09/24/18 11:55 am
Gary Gunderman
(ggunderm):
Approved for
Institutional
Research
7. 09/25/18 11:14 am
Julia Kennefick
(jkennef): Approved
for PHYS Chair
8. 10/15/18 1:00 pm
Pearl Dowe
(pkford): Approved
for ARSC Curriculum
Committee
9. 10/15/18 2:08 pm
Jeannine Durdik
(jdurdik): Approved
for ARSC Dean
10. 10/15/18 3:36 pm
Miran Kang (kang):
Approved for Global
Campus

11. 10/16/18 10:30 am
Terry Martin
(tmartin): Approved
for Provost Review

History

1. Aug 25, 2014 by Charlie Alison (calison)
2. Jun 5, 2015 by Lisa Kulczak (lkulcza)
3. Mar 2, 2017 by Julia Kennefick (jkennef)
4. May 22, 2018 by Lisa Kulczak (lkulcza)

40.0801 - Physics, General.

Program Title

Physics, Bachelor of Science

Program Delivery

Method

On Campus

Is this program interdisciplinary?

No

Does this proposal impact any courses from another College/School?

No

What are the total hours needed to complete the program? 120

Program Requirements and Description

Requirements

Requirement for B.S. Degree with a Major in Physics ~~in addition to the~~

University Core requirements and the Fulbright College of Arts and Sciences Graduation Requirements for a Bachelor of Science in Physics: ~~the following course requirements must be met.~~ In addition to the Fulbright College of Arts and Sciences Graduation Requirements (see under Degree Completion Program Policy), the following course requirements must be met. Bolded courses from the course list below may be applied to portions of the University/state minimum core requirements. ~~University Core requirements.~~

University/State Minimum Core **35**

Students must complete the following: **65**

<u>PHYS 2054</u>	University Physics I (ACTS Equivalency = PHYS 2034)
<u>PHYS 2074</u>	University Physics II (ACTS Equivalency = PHYS 2044 Lecture)
<u>PHYS 2094</u>	University Physics III
<u>PHYS 3453</u>	Electromagnetic Theory I
<u>PHYS 3613</u>	Modern Physics
<u>PHYS 4073</u>	Introduction to Quantum Mechanics
<u>PHYS 4991</u>	Physics Senior Seminar 1

Mathematics Courses:

<u>MATH 2554</u>	Calculus I (ACTS Equivalency = MATH 2405)
<u>MATH 2564</u>	Calculus II (ACTS Equivalency = MATH 2505)
<u>MATH 2574</u>	Calculus III (ACTS Equivalency = MATH 2603)
<u>MATH 2584</u>	Elementary Differential Equations
<u>MATH 3083</u>	Linear Algebra 2

Additional Science: **8**

Additional Science:

At least 8 hours of other science chosen from CHEM 1103/CHEM 1101L, CHEM 1123/CHEM 1121L, CSCE 2004, CSCE 2014, BIOL 1543/BIOL 1541L (or BIOL 1584), GEOS 1113/GEOS 1111L, or GEOS 1133/GEOS 1131L, or an approved 8 hours of other laboratory-based courses from these departments.

~~Physics B.S. majors must complete all the requirements for one of seven available concentration areas. All 16 concentrations consist of 16 credit hours with the exception of the Geophysics concentration, which requires 24.~~

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University Residency Requirement Electives (See Degree Completion Program Policy) **1**

General Electives **19**

Total Hours **120**

~~* -Note: astronomy, biology, chemistry, computer science, and geosciences courses as specified within the concentration requirements listed below can be applied to this 39 hours.~~

1 Majors must propose participation in a research experience project no later than the end of their junior year of study. A written report of the results must be submitted during Senior Seminar ([PHYS 4991](#)).

2 [CSCE 3513](#), [CSCE 4423](#), [MEEG 2703](#), or [GEOS 4223](#) can be substituted for [MATH 3083](#) with the adviser's approval.

~~The student must present a minimum of 39 semester hours in physics* including: Majors must propose participation in a research experience project no later than the end of their junior year of study. A written report of the results must be submitted during Senior Seminar (PHYS 4991).~~

8-Semester Plan

Are Similar Programs available in the area?

No

Estimated Student Demand for Program na

Scheduled Program Review Date na

Program Goals and Objectives

Program Goals and Objectives

na

Learning Outcomes

Learning Outcomes

na

Description and justification of the request

Description of specific change	Justification for this change
correcting program hours from 39 to 38 (due to drop in EM requirement from 4 to 3 hours)	We changed our 4 hour EM course to a two semester sequence. Majors are only required to take the first course of 3 hours.

Upload attachments

Reviewer Comments

Alice Griffin (agriffin) (09/07/18 11:44 am): Rollback: Please visit with Ryan Cochran to address the discrepancies in the eight semester plan and degree requirements.

Key: 502