

**DEGREE/PROGRAM CHANGE
FORM C
Form Number: C1601**

Fields marked with * are required

Name of Initiator: Mousumi Roy **Email:** mroy@unm.edu **Phone Number:** 505 277-4521 **Date:** 02-10-2015

Associated Forms exist? No Initiator's Title Associate Professor: Earth and Planetary Sciences
Faculty Contact Mousumi Roy Administrative Contact Lina Sandve
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Branch Admin Phone 2771516

Proposed effective term

Semester Fall Year 2016

Course Information

Select Appropriate Program Undergraduate Degree Program
Name of New or Existing Program BS Physics - Optics Concentration
Select Category Degree Degree Type BS
Select Action Revision

Exact Title and Requirements as they should appear in the catalog. If there is a change, upload current and proposed requirements.

See current catalog for format within the respective college (upload a doc/pdf file)

[BSOpticsCurrentNewRquirementsFormC.docx](#)

Does this change affect other departmental program/branch campuses? If yes, indicate below.

Reason(s) for Request (enter text below or upload a doc/pdf file)
See attached Justification letter

[JustificationBSOpticsformC_new.docx](#)

Upload a document that includes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications.(upload a doc/pdf file)

[JustificationBSOpticsformC_new.docx](#)

Are you proposing a new undergraduate degree or new undergraduate certificate? If yes, upload the following documents.

Upload a two-page Executive Summary authorized by Associate Provost. (upload a doc/pdf file)

Upload memo from Associate Provost authorizing go-ahead to full proposal. (upload a doc/pdf file)

Current Requirements:

B.S. in Physics with a concentration in Optics: For the degree of B.S. in Physics with a concentration in Optics: PHYC 290, **301, **302, **303, **304, *307L, **330, **366, *405, *406. Optics elective number 1: must be chosen as one of PHYC *463, *464; ASTR *426; or ECE *475. Optics elective number 2: must be chosen as one of PHYC *430, *477L, *493L, or 554. In addition, these two electives must be chosen in such a way that one of the Optics electives is either PHYC *430 or ECE 475.

Science/Engineering/Math elective number 1: must be at the 200-level or above;

Science/Engineering/Math elective number 2: must be at the 300-level or above.

Required supportive courses: MATH **314, **316; CHEM 121, 123L, 122, 124L.

Proposed Change:

B.S. in Physics with a concentration in Optics: For the degree of B.S. in Physics with a concentration in Optics: PHYC 290, **301, **302, **303, **304, *302L, **330, **366, *405, *406. Optics elective number 1: must be chosen as one of PHYC *463, *464; ASTR *426; or ECE *475. Optics elective number 2: must be chosen as one of PHYC *430, *477L, *493L, or 554. In addition, these two electives must be chosen in such a way that one of the Optics electives is either PHYC *430 or ECE 475.

Science/Engineering/Math elective number 1: must be at the 200-level or above;

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Required supportive courses: MATH **314, **316; CHEM 121, 123L, 122, 124L.

The Physics and Astronomy faculty wish to correct a problem with our current BS in Optics Program: it does not require PHYC 302L, Optics Lab. This lab should be required for all students in the Optics Concentration, and should replace PHYC 307L in the present list of required courses.

For reference, here is the current verbiage in the UNM Catalog (2014-2015):

“B.S. in Physics with a concentration in Optics: For the degree of B.S. in Physics with a concentration in Optics: PHYC 290, **301, **302, **303, **304, *307L, **330, **366, *405, *406. Optics elective number 1: must be chosen as one of PHYC *463, *464; ASTR *426; or ECE *475. Optics elective number 2: must be chosen as one of PHYC *430, *477L, *493L, or 554. In addition, these two electives must be chosen in such a way that one of the Optics electives is either PHYC *430 or ECE 475. Science/Engineering/Math elective number 1: must be at the 200-level or above; Science/Engineering/Math elective number 2: must be at the 300-level or above.”

Proposed Change: instead of *307L, we need: *302L

The proposed change will be accommodated within our current undergraduate program assessment plan, specifically:

- 1) Assessment by the instructors (Instructor Reports) of critical 300 and 400 level courses

This proposed change will not impact the department’s long-range plan, budget, or faculty workload.