

**DEGREE/PROGRAM CHANGE
FORM C
Form Number: C1280**

Fields marked with * are required

Name of Initiator: Richard Rand **Email:*** rjr@unm.edu **Date:*** 09-25-13
Phone Number:* 505 277-2073 Initiator's Title* Prof. Physics/Astro, Undergrad Cmte
Chair

Associated Forms exist?* Yes ▼

Faculty Contact* Richard Rand
Department* Physics and Astronomy
Branch

Administrative Contact* Lina Sandve
Admin Email* lsandve@unm.edu
Admin Phone* 277-1514

Proposed effective term:

Semester Fall ▼ Year 2014 ▼

Course Information

Select Appropriate Program Undergraduate Degree Program ▼

Name of New or Existing Program * B.S. in Physics with a concentration in Optics

Select Category Concentration ▼ 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)

[bsopticschange2013.txt](#)

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)

The requirements are being updated to reflect changes made for Fall 2013 and Fall 2014. First, a new class, PHYC 366 is being created to replace the required supportive courses MATH 311 and MATH 312 (see associated Form B). Second, last year we changed the linear algebra course to be taken by students pursuing the BS in Physics from MATH 321 to MATH 314, and we need to update the required supportive courses to reflect this.

Upload a document that includes justification for the program, impact on long-range planning, detailed budget analysis and faculty workload implications:*

[bsopticschangejust2013.txt](#)

Current requirements:

For the degree of B.S. in Physics with a concentration in Optics: PHYC 290, 301, 302, 303, 304, 307L, 330, 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 311, 312, 316, 321; CHEM 121, 123L, 122, 124L

Proposed requirements:

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

bsopticschangejust2013.txt

There is no impact on long-range planning, budget or faculty workload. We have been teaching PHYC 366 as a topics class for three years now, and it is now part of our normal workload.