

**DEGREE/PROGRAM CHANGE
FORM C
Form Number: C1817**

Fields marked with * are required

Name of Initiator: Donald Godwin **Email:** dgodwin@unm.edu **Phone Number:** 505 272-0907 **Date:** 11-24-2015

Associated Forms exist? Initiator's Title
Faculty Contact Administrative Contact
Department Admin Email
Branch Admin Phone

Proposed effective term

Semester Year

Course Information

Select Appropriate Program
Name of New or Existing Program
Select Category Degree Type
Select Action

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)

[PharmD MS dual degree Title and Requirements.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)

There are currently 19 Schools/Colleges of Pharmacy that offer a PharmD/MS dual degree programs in the United States and more are in the process of implementing similar programs. As the administration of health care in the United States becomes more and more complicated, health care providers with training in pharmacy research will be needed to lead pharmacy into the 21st century. Historically, each new class of pharmacy students have expressed an interest in advanced pharmacy research. This has recently led to the development of the Student Pharmacy Research Interest Group, which is now recognized as an official student organization in the UNM College of Pharmacy. The PharmD/MS program is a popular choice among students interested in pharmacy research due to the efficiency of this program to provide the necessary research qualifications as compared to PharmD/MPH and, PharmD/MBA, and PharmD/PhD programs. Importantly, a PharmD/MS dual degree would greatly strengthen the student's credentials for applications to Pharmacy Residencies and Fellowships, which are highly competitive. The UNM College of Pharmacy has an established PharmD program and a Master's Degree program in Pharmaceutical Sciences with concentrations in (1) Toxicology and Pharmaceutical Sciences and (2) Pharmacoeconomics, Epidemiology, Pharmaceutical Policy, and Outcomes Research (PEPPOR).

[PharmD MS dual degree Reason for Request.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)

[PharmD MS dual degree Justification, impact, budget, and faculty workload implications.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)

PharmD/MS Toxicology and Pharmaceutical Sciences Concentration

Pharmacy is a health profession that integrates elements of chemistry, biology, anatomy, physiology, and other biomedical sciences. A Doctor of Pharmacy (PharmD) is a professional doctor degree in pharmacy that is a prerequisite for exercising the profession of Pharmacist. The PharmD degree curriculum includes extensive didactic clinical preparation, hands-on clinical practice experience in a wide array of healthcare settings, and a greater emphasis on clinical pharmacy practice pertaining to optimize pharmacotherapy. Many advanced opportunities available to a PharmD would benefit from formal scientific research experience. A Master of Science (MS) degree in pharmacy is a course- and research-based degree that affords the research experience necessary to apply the scientific method to advanced research in pharmacy. Completion of the MS degree in pharmaceutical sciences requires developing a thesis project, documenting the completed project, and defending a thesis. There is a growing need for PharmD professionals to have formal research training to prepare them for many grant programs for which they are eligible as clinical doctorates. This need would be aided significantly by a program that oversees a formal research project, providing a complete “research culture” experience; this would be provided in a Master’s Degree program. A dual PharmD/MS degree will provide the guidance necessary for the PharmD student to effectively translate scientific concepts to pharmaceutical research.

Requirements for Dual PharmD MS Degree completion:

1. Completion of the UNM College of Pharmacy PharmD Requirements
2. 32 graduate credit hours
 - a. 18 dual-credit hours
 1. PHRM 706 – 3 credits – Foundations of drug action
 2. PHRM 710 – 5 credits – Mechanisms of drug action I
 3. PHRM 731 – 5 credits – Mechanisms of drug action II
 4. PHRM 732 – 5 credits – Mechanisms of drug action III
 - b. PHRM 598/798 – 1 credit - Additional requirement necessary to enable PHRM 706, 710, 731, 732 to be eligible for graduate level credit and organize integration of PharmD and MS curricula
 - c. At least 5 credit hours of elective graduate level classes (e.g., biostatistics, laboratory methods, or others appropriate for the student’s area of studies)
 - d. 2 credit hours of Pharmaceutical Sciences Seminar (PHRM 593) or other science rigorous seminar series available for graduate credit
 - e. 6 credit hours of Thesis Research (PHRM 599)
 - f. Minimum of 32 graduate credit hours total

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The PharmD and Master's in Pharmaceutical Sciences Dual Degree Program (PharmD/MS) will utilize existing faculty, administrative, and facility resources in the College of Pharmacy. Therefore, the budgetary and faculty load implications of this program will not require significant changes to the existing infrastructure. On an annual basis, the PharmD/MS program will only accept a number of students that can be managed based on College of Pharmacy faculty with positions available for dual degree students. The students will take classes that are already offered from the College of Pharmacy. The creation of this dual degree program is important to the long-range planning of the College of Pharmacy to maintain competitiveness in the recruitment of pharmacy students both in New Mexico and the nation. More and more pharmacy schools are developing these kinds of programs and the creation of a PharmD/MS degree at UNM will assist us in retaining the best and the brightest of New Mexican students here in our State to serve the health care needs of our people for a prosperous future.

PharmD/MS PEPPOR Concentration

The College of Pharmacy would like to offer a dual degree program leading to a Doctor of Pharmacy and Master's Degree. The dual degree program is designed to prepare students for leadership positions that demand knowledge of both health sciences combined with research experience. The goal is to provide graduates with the skills, knowledge, and experience needed for positions in pharmacoeconomics, epidemiology, pharmaceutical policy, and outcomes research in academic settings, the pharmaceutical industry, or pharmacy management careers. Under this program, the College of Pharmacy will require a minimum of 21 hours of graduate level courses in addition to 11 hours of science courses in the PharmD curriculum for a total of 32 credit hours. Students should have completed an undergraduate degree for consideration for admission to the program and must commit to the Dual PharmD and Master's in Pharmaceutical Sciences Degree Program before completing their second year in the professional program. Applicants will be considered for the program under the same criteria as applicants to the graduate program. The Dual PharmD and Master's in Pharmaceutical Sciences, with a concentration in PEPPOR, degrees will be conferred together upon successful completion of the program. It is expected that students will complete the degree within 1 year after completing the PharmD degree.

Pharm D/MS, with an emphasis in PEPPOR (32 credit hours)

32 graduate credit hours

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| <ul style="list-style-type: none">• 18 dual-credit hours<ol style="list-style-type: none">a. PHRM 707 – 3 credits –Pharmacy and Health Care Deliveryb. PHRM 728 – 3 credits – Pharmacy Informatics and Researchc. PHRM 760 – 3 credits – Pharmacy Healthcare Management and Economicsd. PHRM 766 – 2 credits – Public Health in Pharmacye. PHRM 545 – 3 Credits (elective for Pharm D) – Pharmacoeconomicsf. PHRM 546 - 3 Credits (elective for Pharm D) - Healthcare Systems Review <i>and/or</i> Pharm 547- 3 Credits (elective for Pharm D) Research Design and Analysis• At least 6 credit hours of elective graduate level classes (e.g., biostatistics, epidemiology, or others)• 2 credit hours of Seminar (PHRM 591)• 6 credit hours of Thesis Research (PHRM 599) |
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