

BS Pharm Sci **Bachelor of Science in Pharmaceutical Sciences**

Under Review | Fall 2025

Proposal Information

Status

Active

Workflow Status

In Progress

Faculty Senate Approval, Faculty Senate

Waiting for Approval | Faculty Senate Approval

expand ▲

Nancy Middlebrook

Changes

- Campus
- Program Description
- Emphasis Rules
- participants
- Proposed Effective Term and Year
- End Term
- Sponsoring faculty/staff member
- Sponsoring faculty/staff email
- Program Justification
- Is this program also offered online?
- License/Certification associated with program
- Degree Hours
- Sample Degree Plan Upload
- Learning Outcomes

Collapse ▲

Proposal Information

Proposed	Proposed
Sponsoring faculty/staff member	Sponsoring faculty/staff email
Krystal Ward	klward@salud.unm.edu
Existing	Existing
Sponsoring faculty/staff member	Sponsoring faculty/staff email

College

College of Pharmacy

Department

Pharmacy

Proposed

Campus

Health Sciences Center (Albuquerque)

Existing

Campus

Main Campus

Effective Term and Year

Proposed

Proposed Effective Term and Year

Fall 2025

Existing

Proposed Effective Term and Year

Fall 2006

Justification

Proposed

Program Justification

The Clinical Emphasis BS degree course requirements are being edited to align with the PharmD current prerequisite requirements. The PharmD prerequisite requirements underwent changes that impact students in this program as the Clinical Emphasis is designed as a degree pathway only open to students accepted to the PharmD program. Included changes are as follows: Deletion of Physics 1 and 2 and Calculus. College Algebra was added as a required course. Additional PharmD first year courses were added. Removal of Biochemistry as required, but listed as an option for fulfilling support hours for the degree. Additional hours of support courses were added to ensure 120 hours for the program. Miscellaneous errors were also resolved.

Existing

Program Justification

Program Category and Level

Program Category

Program

Program Level

Undergraduate

Degree, Minor, or Certificate Name

Bachelor of Science in Pharmaceutical Sciences

Degree Type

Bachelor of Science

Degree/Certificate Level

Undergraduate

Proposed

Is this program also offered online?

No

Existing

Is this program also offered online?

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Associated Forms

Select any associated course forms that exist

Select any associated program forms that exist

Shared Credit and Dual Degree information

Interdepartmental Program

No

Catalog Information

Proposed

Program Description

Applicants to the B.S. in Pharmaceutical Sciences program must meet admission requirements to both the Pharm.D. program and the University of New Mexico. Pharm.D. applications are only accepted through the PharmCAS online application service. After admission to the Pharm.D. program, students can choose to apply for the undergraduate degree after their first year of pharmacy study. Graduates of the B.S. in Pharmaceutical Sciences program will demonstrate:

- A broad knowledge of pharmaceutical and related sciences;
- An understanding of drug discovery, development, and commercialization;
- Effective written and oral communication skills;
- An ability to integrate and apply knowledge to solve problems; and
- Ethical and socially responsible conduct.

In addition, the College of Pharmacy offers a Bachelor of Science in Pharmaceutical Sciences (research and development track) for those students who do not intend on becoming a pharmacist, but rather choose to work in the pharmaceutical sciences field. Students who complete this degree will have the knowledge and skills to work in the flourishing pharmaceutical, cosmetics, chemical and related industries. Graduates of the proposed program can be employed in areas such as drug discovery, research and development, product formulation and manufacturing, clinical research, pharmacokinetics and metabolism.

Existing

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Admissions Requirements

Graduation Requirements

Professional Credential/Licensure Program Information

Proposed
License/Certification associated with program
No

Existing
License/Certification associated with program
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Degree Information

Proposed	Minimum Major Hours
Degree Hours	
120	
Existing	
Degree Hours	

Professional Accrediting Bodies

Degree Requirements

Requirements

- Earn at least 120 credits from the following types of courses:
Complete either the Clinical Track or the Research and Development Track

Grand Total Credits: 120

Concentrations

Program Concentrations

Code	Title
Concentration Required	
No	

Emphases

Emphasis required	Emphasis Hours
Yes	

Emphasis Rules**Clinical Emphasis**

- Complete all of the following
 - Complete the following:
 - CHEM1215 - General Chemistry I for STEM Majors (3)
 - CHEM1215L - General Chemistry I for STEM Majors Laboratory (1)
 - ~~ECON2120 - Microeconomic Principles (3)~~
 - ENGL1120 - Composition II (3)
 - ~~MATH1430 - Applications of Calculus I (3)~~
 - ~~BIOL2110C - Principles of Biology: Cellular and Molecular Lecture and Laboratory (4)~~
 - CHEM1225 - General Chemistry II for STEM Majors (3)
 - CHEM1225L - General Chemistry II for STEM Majors Laboratory (1)
 - ~~PHYS1230 - Algebra-Based Physics I (3)~~
 - ~~BIOL2410C - Principles of Biology: Genetics Lecture and Laboratory (4)~~
 - CHEM303L - Organic Chemistry Laboratory (1)
 - ~~PHYS1240 - Algebra-Based Physics II (3)~~
 - BIOL2210 - Human Anatomy and Physiology I (3)
 - BIOL2305 - Microbiology for Health Sciences (4)
 - CHEM302 - Organic Chemistry (3)
 - CHEM304L - Organic Chemistry Laboratory (1)
 - BIOL2225 - Human Anatomy and Physiology II (3)
 - MATH1350 - Introduction to Statistics (3)
 - PHRM701 - Applied Biochemistry (3)
 - PHRM704 - Public Health (2)
 - PHRM705 - Fundamentals of Pathophysiology and Immunology (3)
 - PHRM707 - Introduction to Pharmacy Practice and Communication (2)
 - PHRM709 - Pharmacy and Health Care Delivery Systems (2)
 - PHRM717 - Introduction to Law, Ethics and Social Issues in Pharmacy (2)
 - PHRM702 - Physical Pharmacy and Biopharmaceutics (3)
 - PHRM710 - Fundamentals of Pharmacokinetics and Dosage Forms (3)
 - PHRM711 - Introduction to Pharmacology and Medicinal Chemistry (4)
 - PHRM713 - Aspects of Patient Care II (2)
 - PHRM715 - Introduction to Clinical Reasoning, Self-Care, and Non-Prescription Therapeutics (2)
 - **MATH1220 - College Algebra (3)**
 - **PHRM719 - Professional Development I (1)**
 - **PHRM729 - Professional Development II (1)**
 - **PHRM703 - Aspects of Patient Care I (3)**
 - **CHEM301 - Organic Chemistry (3)**
 - **BIOL2101 - Principles of Biology: Molecules to Cells (3)**
 - **BIOL2103L - Principles of Biology: Introductory Laboratory (1)**
 - **BIOL302C - Genes to Genomes: Lecture and Laboratory (4)**
 - Complete at least 1 of the following:

- **ECON2120 - Microeconomic Principles (3)**
- **ECON2110 - Macroeconomic Principles (3)**
- Earn at least 3 credits from the following:
 - ENGL1110 - Composition I (3)
 - ENGL1110Y - Composition I: Stretch II (3)
 - ENGL1110Z - Enhanced Composition (4)
- **Earn at least 3 credits from the following types of courses:**
Communication or CJ courses (beyond communications course required for general education)
- ~~Earn at least 3 credits from the following:~~
 - ~~BIOC423 - Introductory Biochemistry (3)~~
 - ~~BIOC445 - Intensive Introductory Biochemistry I (4)~~
 - ~~CHEM421 - Biological Chemistry/Chemical Biology I (3)~~
 - ~~CHEM425 - Organic Chemistry of Biological Pathways (3)~~
- **Earn at least 3 credits from the following types of courses:**
Critical Thinking selectives, including ONE of the following: PHRM 105, PHIL 1115, PHIL 1120, PHIL 1130, PHIL 2140, ENGL 2120, MATH 1130, Math 1230, Math 1430, BIOL 2102, Any additional 300 or 400 level Biology and Chemistry course
- ~~Earn at least 9 credits from the following types of courses:~~
~~Communication or critical thinking selective~~
- ~~Earn at least 21-31 credits from the following types of courses:~~
 In addition to the program-specific requirements outlined here, all undergraduate students are required to fulfill UNM's General Education Program requirements. In some instances, courses included in an undergraduate degree program's requirement may also fulfill a General Education requirement. Please review the General Education Program in this Catalog for General Education information. **The College of Pharmacy allows 3 credit hours of undergraduate Biochemistry to count toward these hours.**

Research and Development Emphasis

- Complete all of the following
- Complete the following:
 - ~~BIOL2110C - Principles of Biology: Cellular and Molecular Lecture and Laboratory (4)~~
 - CHEM1215 - General Chemistry I for STEM Majors (3)
 - CHEM1215L - General Chemistry I for STEM Majors Laboratory (1)
 - MATH1430 - Applications of Calculus I (3)
 - PHRM105 - Introduction to Pharmacy Practice and Pharmaceutical Sciences (3)
 - ~~BIOL2410C - Principles of Biology: Genetics Lecture and Laboratory (4)~~
 - CHEM1225 - General Chemistry II for STEM Majors (3)
 - CHEM1225L - General Chemistry II for STEM Majors Laboratory (1)
 - ENGL1120 - Composition II (3)
 - MATH1350 - Introduction to Statistics (3)
 - BIOL2210 - Human Anatomy and Physiology I (3)
 - BIOL2305 - Microbiology for Health Sciences (4)
 - PHYS1230 - Algebra-Based Physics I (3)
 - BIOL2225 - Human Anatomy and Physiology II (3)
 - CHEM302 - Organic Chemistry (3)

- CHEM304L - Organic Chemistry Laboratory (1)
- PHYS1240 - Algebra-Based Physics II (3)
- PHRM301 - Applied Biochemistry (3)
- PHRM305 - Fundamentals of Pathophysiology and Immunology (3)
- CHEM2310C - Quantitative Analysis Lecture and Laboratory (4)
- PHRM302 - Physical Pharmacy and Biopharmaceutics (3)
- PHRM310 - Fundamentals of Pharmacokinetics and Dosage Forms (3)
- PHRM311 - Introduction to Pharmacology and Medicinal Chemistry (4)
- PHRM315 - Pharmaceutical Sciences Laboratory Techniques (3)
- PHRM424 - Dosage Forms (3)
- PHRM435 - Quality Control and Regulatory Affairs (3)
- PHRM493 - Pharmaceutical Sciences and Toxicology Seminar (1)
- PHRM476 - Molecular and Cellular Pharmacology (3)
- PHRM493 - Pharmaceutical Sciences and Toxicology Seminar (1)
- CHEM301 - Organic Chemistry (3)
- ~~CHEM301 - Organic Chemistry (3)~~
- **CHEM303L - Organic Chemistry Laboratory (1)**
- **BIOL2101 - Principles of Biology: Molecules to Cells (3)**
- **BIOL2103L - Principles of Biology: Introductory Laboratory (1)**
- **BIOL302C - Genes to Genomes: Lecture and Laboratory (4)**
- Earn at least 3 credits from the following:
 - ENGL1110 - Composition I (3)
 - ENGL1110Y - Composition I: Stretch II (3)
 - ENGL1110Z - Enhanced Composition (4)
- Earn at least 8 credits from the following types of courses:
Elective: PHRM 400-level
- Earn at least 21 credits from the following types of courses:
- Earn at least this many additional elective credits: 3

Sample Degree Plan

Proposed

Sample Degree Plan Upload

- BS Clinical Degree Plan.docx
- BSPS-R&D Curriculum.docx

Existing

Sample Degree Plan Upload

Program Learning Outcomes

Proposed

Learning Outcomes

Upon completion of this program, graduating students will demonstrate:

- A broad knowledge of pharmaceutical and related sciences;
- An understanding of drug discovery, development, and commercialization;
- Effective written and oral communication skills;
- An ability to integrate and apply knowledge to solve problems; and
- Ethical and socially responsible conduct.

Existing

Learning Outcomes