

PhD Chem

Doctor of Philosophy in Chemistry

Under Review | Fall 2025

Proposal Information

Status

Active

Workflow Status

In Progress

Refresh  **Form Submission, Proposer**

collapse ▼

Submitted for Approval | Proposer

✓ Jeremy Edwards | 11/13/2024 11:54 AM

Department Chair Approval, Chemistry

Approved | Department Chair

✓ Jeremy Edwards | 11/13/2024 11:55 AM

Registrar Technical Check Approval, Registrar Technical Check

Approved | Registrar Technical Check

— Michael Raine

✓ Maggie Sumruld | 11/13/2024 2:20 PM

College/School Approval

Sent Back

← Peter Fawcett

Jeremy - you should be able to edit the Justification now per your email to me.

12/16/2024 2:41 PM

Department Chair Approval, Chemistry

Approved | Department Chair

✓ Jeremy Edwards

The major change is we will require a new orientation course (CHEM502). The other changes are basically defining specifically the acceptable courses and electives. The Catalog wasn't specific enough. We want to ensure that our students take all core courses, and choose from specific electives and topics for the remaining credits. There is no change in the number of required credits. I have edited the justification.

12/16/2024 2:53 PM

Registrar Technical Check Approval, Registrar Technical Check

Approved | Registrar Technical Check

— Michael Raine

✓ Maggie Sumruld | 12/16/2024 3:33 PM

College/School Approval, College of Arts & Sciences: Natural Sciences & Mathematics

Approved | College or School approver

✓ Peter Fawcett | 12/16/2024 3:41 PM

Library Approval, Main Campus Library

Approved | Library Approval

✓ Sever Bordeianu | 12/16/2024 3:42 PM

SGPC Approval, Faculty Senate Graduate and Professional Committee

Approved | Chair

✓ Robben Brown | 10/23/2025 8:41 AM

FSCC Member notification, Faculty Senate Curriculum Committee

Notification Sent | Faculty Senate Curriculum Committee Member

- ☒ Joe Anderson
- ☒ Laura Belmonte
- ☒ Sara Ice
- ☒ Mary Rice
- ☒ John Russell
- ☒ SueNoell Stone
- ☒ Jonathan Wheeler
- ☒ Kirsten Thomson
- ☒ Paulo Dutra
- ☒ Randi Archuleta
- ☒ Joan Lucas
- ☒ Julia So
- ☒ Jennifer Henry
- ☒ Christopher Holden
- ☒ Justine Ponce
- ☒ Isabella Goss
- ☒ Vanessa Ferguson
- ☒ Lauren McQuiston
- ☒ Jennifer Laws

Faculty Senate Curriculum Committee Approval, Faculty Senate Curriculum Committee

Approved | Faculty Senate Curriculum Committee Chair

✓ Janet Vassilev

FSCC voted to approve this form 11/14/2025.

11/14/2025 1:23 PM

— Nicole Capehart

Provost Approval, Main Campus Provost

Approved | Provost

✓ Pamela Cheek | 1/14/2026 5:13 PM

Faculty Senate Approval, Faculty Senate

Waiting for Approval | Faculty Senate Approval

Nancy Middlebrook

Theresa Sherman

External Review - HED CIP code approval, External Review

Approval | HED CIP code approval

Michael Raine

Anna Gay

Reg. Final Approval/Processing, Registrar

Approval | Registrar final approval

Michael Raine
Maggie Sumruld

Notification, Proposer

Notification | Proposer

Jeremy Edwards

Notification, Faculty Senate Graduate and Professional Committee

Notification | Chair

Robben Brown

EMRT notification, EMRT users

Notification | EMRT user

Enrollment Mgt Reporting Team

Notification, LoboTrax Team

Notification | LoboTrax Staff

Sherri DeLeve
Paula Freitag
Hannah Epstein
Allie Martinez
Glenda Johnson

Changes

- College
- Requirements
- participants
- Proposed Effective Term and Year
- Catalog Activation Date

Show All ▼

Proposal Information

Proposed

Sponsoring faculty/staff member

Jeremy Edwards

Proposed

Sponsoring faculty/staff email

jsedward@unm.edu

Existing

Sponsoring faculty/staff member

Existing

Sponsoring faculty/staff email

Proposed

College

College of Arts & Sciences:
Natural Sciences &
Mathematics

Department

Chemistry

Campus

Main Campus

Existing

College

College of Arts & Sciences

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 significant change in the program is that we will require a new orientation course, CHEM 502.

We need a new orientation course. The material in this course was previously covered during the week before classes during TA trainings. However, after the grad students unionized there are new demands on grad student time during this week, therefore we need to cover this material during the semester. Honestly, we also believe that it is better to cover this material during the semester. This course will cover topics that are essential for first year graduate students in chemistry. We will cover safety training for working in a lab. Additionally, we will cover topics in Responsible Conduct of Research and Ethics. We will also spend time introducing the grad students to the various research projects in the department.

There are also minor changes to the program to define specifically which types of course we want our students to take. The students will be required to take the core graduate level course and also a specific number of electives and topics courses. These changes are defined as "minor" because this is what we have always expected and advised our students to do. We are just formalizing it in the catalog. To be more specific, the core courses were already defined, but now we are requiring a specific number of electives, that can not include topics courses. Topics courses are typically less rigorous.

There are no changes in the total credit hours.

Existing

Program Justification

Proposed

Graduate program revision

No

Existing

Graduate program revision

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Program Category and Level

Program Category

Program Level

Degree, Minor, or Certificate Name

Degree

Graduate

Doctor of Philosophy in Chemistry

Certificate or Degree Type

Doctor of Philosophy

Degree/Certificate Level

Doctoral

Proposed

Is this program also offered online?

No

Existing

Is this program also offered online?

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File Uploads

Document uploads

Associated Quali Forms

Proposed

Select any associated program forms that exist

Select any associated course forms that exist

CHEM 502 - Introduction to Graduate Studies and Career
Preparation: Safety and Responsible Conduct of Research
(1) | **Under Review**

Existing

Select any associated course forms that exist

Shared Credit and Dual Degree information

Interdepartmental Program

No

Catalog Information

Program Description

The program in Chemistry is designed to encourage a broad education while remaining flexible enough to permit students to pursue their own interests and to develop programs to satisfy their goals.

Admissions Requirements

The specific requirements for admission to the graduate program are a minimum of 28 credit hours of chemistry. A general physics course and mathematics through differential and integral calculus are also required.

Application Deadlines

Chemistry and Chemical Biology accepts applications for Fall semester only. For best consideration, the applications should be submitted before January 1. Late applications are considered on the basis of availability. Only completed files are reviewed and it is the responsibility of the applicant to make sure all required materials are sent in a timely fashion. The department does not accept email copies of any information.

Graduation Requirements

Professional Credential/Licensure Program Information

License/Certification associated with program

No

Professional Accrediting Bodies

Degree Information

Degree Hours

66

Minimum Major Hours

Degree Requirements

Requirements

Pre-Qual Requirements

48

Total Credits

- Complete all of the following
 - Complete the following:
 - CHEM501 - Molecular Structure Theory (3)
 - CHEM511 - Mechanisms in Organic Chemistry (3)
 - CHEM521 - Biological Chemistry/Chemical Biology I (3)
 - CHEM536 - Synthesis and Mechanism in Inorganic Chemistry (3)
 - Earned at least 6 credits from CHEM 501 - 598, excluding:
 - CHEM515 - Topics in Organic Chemistry (1 - 3)
 - CHEM516 - Topics in Organic Chemistry (1 - 3)
 - CHEM537 - Topics in Inorganic Chemistry (3)
 - CHEM538 - Topics in Inorganic Chemistry (3)
 - CHEM545 - Topics in Analytical Chemistry (3)
 - CHEM546 - Topics in Analytical Chemistry (3)
 - CHEM567 - Topics in Physical Chemistry (3)
 - CHEM569 - Characterization Methods for Nanostructures (3)
 - CHEM587 - Advanced Topics in Biological Chemistry (3)
 - Earned at least 3 credits from CHEM 501 - 598
 - Complete the following:
 - CHEM502 - Introduction to Graduate Studies and Career Preparation: Safety and Responsible Conduct of Research (1)
 - Earn at least 4 credits from the following:
 - CHEM623 - Research Colloquium (1)
 - Earn at least 4 credits from the following:
 - CHEM625 - Chemistry Divisional Seminar (1)
 - Earn at least 15 credits from the following:
 - CHEM650 - Research and Readings (2 - 12)
 - Earn at least 3 credits from the following types of courses:
These 3 additional credits can be from any chemistry elective, topics course, or research readings.
CHEM501-598 and CHEM650

Post-Qual Requirements

18

Total Credits

- Earn at least 18 credits from the following:
 - CHEM699 - Dissertation (3 - 12)

Grand Total Credits: 66

Concentrations

Program Concentrations

Code	Title
Concentration Required	
No	

Emphases

Emphasis required	Emphasis Hours
No	
Emphasis Rules	
No Rules	

Program Learning Outcomes

Proposed
Learning Outcomes
NO CHANGE FROM BEFORE.
Existing
Learning Outcomes

Registrar Office Only

CM Program Code	BANP	Banner Program Code	Major Code
PhD Chem		PHD-CHEM	CHEM
Online Program Code	Online Major Code	Pre-major Program Code	Pre-major Major Code
CIP Code	Concentration Inheritance		
400501	No		
Catalog	Proposed		

Main Campus

Catalog Activation Date

Existing

Catalog Activation Date

08/01/06

Notes