

**DEGREE/PROGRAM CHANGE
FORM C**

Fields marked with * are required

Name of Initiator: Deborah Moore

Email: *moored@unm.edu

Date: * 11-07-07

Phone Number: * 505 277-2945

Initiator's Rank / Title* Dept Administrator III: Chemistry
Department

Faculty Contact* Cary J. Morrow

Administrative Contact* Deborah Moore

Department* Chemistry and Chemical Biology

Division Arts & Sciences

Program Chemistry

Branch Main

Proposed effective term:

Semester Fall ▼ Year 2008 ▼

Course Information

Select Appropriate Program Undergraduate Degree Program ▼ CIP Code

Name of New or Existing Program * Chemistry Major

Catalog Page Number 163 Select Category Major ▼ Degree Type BA & BS

Select Action Revision ▼

Exact Title and Requirements as they should appear in the catalog.

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

[Form C Attachment CHEM Major.doc](#)

This Change affects other departmental program/branch campuses

Reason(s) for Request * (enter text below or upload a doc/pdf file)

Development of new curriculum

Statements to address budgetary and Faculty Load Implications and Long-range planning

None. Courses being added are replacing existing courses that are being deleted.

* (enter text below or upload a doc/pdf file)

Form C Attachment
Major Study Requirements

The Bachelor of Arts degree requires a minimum of 30 credit hours earned in chemistry courses beyond CHEM 121 and CHEM 123L. The B.A. must also include the following: CHEM 122, CHEM 124L, CHEM 253L, CHEM 301, CHEM 302, CHEM 303L, and CHEM 304L. In addition to these courses, students must select their remaining course work from one of the following areas of concentration:

Pre-medical/Pre-pharmacy B.A.: CHEM 315, CHEM 421 (or BIOC 423), and five additional hours of chemistry electives. Electives must be selected from the following courses: CHEM 351L, CHEM 425, CHEM 431, approved CHEM 471 topics, CHEM 495-496 (no more than 2 credit hours in 495-496). The Pre-medical BA concentration must also include MATH 162 (or MATH 180), MATH 163 (or MATH 181), and PHYC 151, PHYC 151L, PHYC 152, and PHYC 152L. These B.A. requirements also fulfill the prerequisites in chemistry, physics, and, if BIOC 423 is taken, biochemistry, that are required for admission to many medical and pharmacy schools. Courses in other areas, such as biology, that are specified in each professional school's undergraduate program to gain admission to one of those professional schools. This program may also be suitable for fulfilling many of the prerequisite requirements for admission to other professional schools such as dentistry.

Pre-graduate school in chemistry B.A.: CHEM 311 and CHEM 312, 6 credit hours from CHEM 421, CHEM 425, CHEM 431, approved CHEM 471 topics or three hours of CHEM 495 and/or CHEM 496. The Pre-graduate school B.A. concentration must also include MATH 162, MATH 163, and MATH 264, and either PHYC 160 and PHYC 161 plus PHYC 160L and 161L (or PHYC 151, PHYC 151L, PHYC 152 and PHYC 152L). These B.A. requirements also include the minimum prerequisites for admission to many second and third tier universities' graduate programs (M.S. or Ph.D.) in chemistry. Some institutions may require the student to complete additional undergraduate courses following matriculation into their graduate program.

General B.A.: CHEM 315, and eight additional hours of chemistry electives. Electives must be selected from the following courses CHEM 421 (or BIOC 423), CHEM 425, Chem 351L, CHEM 431, approved CHEM 471 topics, CHEM 495-496 (no more than 2 credit hours in 495-496). The General B.A. concentration must also include MATH 162 (or MATH 180), MATH 163 (or MATH 181), PHYC 151, PHYC 151L, PHYC 152, and PHYC 152L.

For the degree of Bachelor of Science: CHEM 121, CHEM 123L, CHEM 122, CHEM 124L, CHEM 301, CHEM 302, CHEM 303L, CHEM 304L, CHEM 311, CHEM 312, CHEM 351L, CHEM 352, CHEM 411L, CHEM 431, CHEM 432L, and at least 6 additional hours selected from courses numbered CHEM 325-498. The program must also include PHYC 160, PHYC 160L, PHYC 161, PHYC 161L, mathematics equivalent to MATH 264 and one course from MATH 311-316. Up to 3 credits of CHEM 495-498 or 2 credits of CHEM 495-498 and 1 credits of CHEM 325-326 may be counted toward the B.S. degree.

NOTE: CHEM 131L may be substituted for CHEM 121 and CHEM 123L and CHEM 132L may be substituted for CHEM 122, CHEM 124L.

NOTE: Physics and mathematics courses require for the B.S. or B.A. degree may not be taken on the credit/no credit grade option.

Students wishing to have their B.S. degree certified by the American Chemical Society (ACS) must include CHEM 421 and 3 hours of research in their 6 hours of electives.

No distributed minors are allowed for B.A. majors.

In lieu of a specific minor a student in the B.S. program may obtain the following distributed minor:

Distributed Minor

Completion of the Chemistry B.S. requirements in addition to taking one additional course from MATH 311, MATH 314, or MATH 316 and ENGL 219.

Departmental Honors

The student enters the program at the beginning of the junior year. At this time the student's grade point average must be at least 3.20 overall and 3.50 in chemistry. This minimum must be maintained throughout the junior and senior years. Course requirements for graduation with honors are as follows: CHEM 131L-132L (or CHEM 121, CHEM 123L, CHEM 122, CHEM 124L), CHEM 301, CHEM 302, CHEM 303L, CHEM 304L, CHEM 311, CHEM 312, CHEM 351L, CHEM 352, CHEM 411L, CHEM 421, CHEM 431, CHEM 432L, and 6 hours of additional courses from CHEM 325-498, including at least 3 hours from CHEM 497-498. A senior honors thesis will be written based on the senior honors research and submitted to the faculty. An oral presentation will also be made in a departmental or divisional seminar. Honors students will also take the Graduate Record Exam Advanced Test in Chemistry in their senior year and must obtain a satisfactory score.

Any deviation from the requirements prescribed above must be approved in writing.