CHEMISTRY - BACHELOR OF ARTS

The Bachelor of Arts curriculum is designed to provide flexibility with less depth in chemistry, physics, and mathematics. The program may be used by students planning extensive study in other areas and requires emphasis in a second field of study. Emphasis area credits cannot be used for Bachelor of Arts degree.

Requirements

Students must complete all University degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix | Title | Credits
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**General Education**<br>Area I: Communications<br>English Composition - Level 1 | 10<br>English Composition - Level 2 | 1<br>Oral Communication | 1<br>Area II: Mathematics<br>MATH 191G Calculus and Analytic Geometry I | 4<br>Area III/IV: Laboratory Sciences and Social/Behavioral Sciences<br>CHEM 111G General Chemistry I | 3<br>CHEM 112G General Chemistry II | 3<br> or CHEM 115 Principles of Chemistry I<br> or CHEM 116 Principles of Chemistry II<br>Area IV: Social/Behavioral Sciences Course (3 credits) | 1<br>Area V: Humanities | 3<br>Area VI: Creative and Fine Arts | 3<br>**General Education Elective**<br>MATH 192G Calculus and Analytic Geometry II | 4<br>**Viewing A Wider World** | 6<br>**Departmental/College Requirements**<br>CHEM 217 General Chemistry III | 5<br>CHEM 313 Organic Chemistry I | 3<br>CHEM 314 Organic Chemistry II | 3<br>CHEM 315 Organic Chemistry Laboratory | 2<br>CHEM 356 Descriptive Inorganic Chemistry | 3<br>CHEM 357 Synthetic Inorganic Laboratory | 2<br>CHEM 371 Analytical Chemistry | 4<br>CHEM 431 Physical Chemistry | 3<br>CHEM 443 Senior Seminar | 1<br>Additional Chemistry credits | 5<br>**Non-Departmental Requirements (in addition to Gen.Ed/VWW)**<br>PHYS 221G General Physics I<br>& PHYS 222G and General Physics II | 6<br>**Select one from the following:** | 2<br>PHYS 211GL General Physics I Laboratory<br>& PHYS 212GL and General Physics II Laboratory<br>PHYS 221GL Laboratory to General Physics for Life Science I<br>& PHYS 222GL and Laboratory to General Physics for Life Sciences II | 18<br>**Select 18 credits from an Emphasis area** | 7<br>**Second Language Requirement: (not required)**<br>Electives, to bring the total credits to 120 | 29<br>**Total Credits**<br>120

1. See the General Education (<http://catalogs.nmsu.edu/nmsu/essential-information-students/general-education-courses>) section of the catalog for a full list of courses.
2. MATH 191G Calculus and Analytic Geometry I is required for the degree but students may need to take any prerequisites needed to enter MATH 191G first.
3. CHEM 115 Principles of Chemistry I and CHEM 116 Principles of Chemistry II are acceptable General Education substitutions for CHEM 111G/ CHEM 112G but will need a degree audit exception that can be coordinated with your advisor.
4. See the Viewing a Wider World (<http://catalogs.nmsu.edu/nmsu/essential-information-students/general-education-courses/#viewingawiderworldtext>) section of the catalog for a full list of courses.
5. CHEM 115/ CHEM 116 is highly recommended for majors. The alternate sequence CHEM 111G and CHEM 112G and CHEM 217 is acceptable. CHEM 217 is not required if the CHEM 115/ CHEM 116 sequence is completed.
6. BCHE 341 Survey of Biochemistry or BCHE 395 Biochemistry I can be used as Chemistry elective.
7. The Emphasis area is composed of courses outside either chemistry or biochemistry degrees (non-departmental and departmental requirements cannot be used for emphasis area credit). These courses must have a common theme, which complement (whenever possible) principles learned on either chemistry or biochemistry. For example, astronomy and physics courses could be taken as an emphasis area in astrophysics. See a faculty mentor for approval of the courses to be used for an emphasis area. A minimum of 18 credits can be used as an Emphasis area (which could constitute a minor in some cases), but at least nine credits must be upper division.
8. Elective credit may vary based on prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

**Second Language Requirement**

For the Bachelor of Arts with a major in Chemistry there is no second language requirement for the degree.