## 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. Students may not receive both a Bachelor of Science in Biochemistry degree and a Bachelor of Arts in Chemistry degree. All departmental and nondepartmental requirements may not be taken $\mathrm{S} / \mathrm{U}$ and must earn a C - or better final grade.

## 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.


| CHEM 472 | Advanced Integrated Instrumental Analysis and Protein Biochemistry Laboratory |  |
| :---: | :---: | :---: |
| Additional Chemistry credits ${ }^{5}$ |  | 3 |
| Non-Departmental Requirements (in addition to Gen.Ed/VWW) |  |  |
| Select one from the following: |  | 4 |
| PHYS 2110 <br> \& 2110 L | Mechanics and Experimental Mechanics ${ }^{6}$ |  |
| PHYS 1230 G \& PHYS 1230L | Algebra-Based Physics I and Algebra-Based Physics I Lab |  |
| PHYS 2230G \& PHYS 2230L | General Physics for Life Science I and Laboratory to General Physics for Life Science I |  |
| PHYS 1310G \& PHYS 1310L | Calculus -Based Physics I and Calculus -Based Physics I Lab |  |
| Select one from the following: |  | 4 |
| $\begin{aligned} & \text { PHYS } 2140 \\ & \& 2140 \mathrm{~L} \end{aligned}$ | Electricity and Magnetism and Electricity \& Magnetism Laboratory ${ }^{7}$ |  |
| PHYS 1240G \& PHYS 1240L | Algebra-Based Physics II and Algebra-Based Physics II Lab |  |
| PHYS 2240G <br> \& PHYS 2240L | General Physics for Life Science II and Laboratory to General Physics for Life Science II |  |
| PHYS 1320G \& PHYS 1320L | Calculus -Based Physics II and Calculus -Based Physics II Lab |  |
| Select 18 credits from an Emphasis area ${ }^{9}$ |  | 18 |
| Second Language Requirement: (not required) |  |  |
| Electives, to bring the total credits to 120 |  |  |
| Select sufficient ele upper-division. ${ }^{10}$ | ves to bring total credits to 120 , including 48 | 30 |

Total Credits

1 See the General Education (https://catalogs.nmsu.edu/nmsu/ general-education-viewing-wider-world/) section of the catalog for a full list of courses
2 MATH 1511G Calculus and Analytic Geometry I is required for the degree but students may need to take any prerequisites needed to enter MATH 1511G first.
3 See the Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/ general-education-viewing-wider-world/\#viewingawiderworldtext) section of the catalog for a full list of courses
CHEM 1216 General Chemistry I Lecture and Laboratory for CHEM Majors and CHEM 1226 General Chemistry II Lecture and Laboratory for CHEM Majors are recommended and are acceptable General Education substitutions for CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors and CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors but will need a degree audit exception that can be coordinated with your advisor.
The additional chemistry course can be one 3-credit CHEM course or three 1-credit CHEM courses. BCHE 341 Survey of Biochemistry or BCHE 395 Biochemistry I can also be used to fulfill the additional chemistry course requirement.
PHYS 2110 Mechanics is the Physics I course recommended for all Chemistry majors. PHYS 1230G Algebra-Based Physics I, PHYS 2230G General Physics for Life Science I, and PHYS 1310G Calculus -Based Physics I are acceptable and are recommended in the decreasing order listed.

7 PHYS 2140 Electricity and Magnetism is the Physics II course recommended fro all Chemistry majors. PHYS 1240G AlgebraBased Physics II, PHYS 2240G General Physics for Life Science II, and PHYS 1240G Algebra-Based Physics II are acceptable and are recommended in the decreasing order listed. Students are highly
cautioned to check prerequisites for the individual courses when schedule planning.
Students are strongly encouraged to check prerequisite/corequisite requirements for Physics labs when schedule planning.
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.
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.

