

CHEMISTRY - MASTER OF SCIENCE

The Master of Science in Chemistry is offered in the major emphasis areas of analytical, inorganic, organic, and physical chemistry, and biochemistry. The M.S. degree can be obtained through either a thesis option or a non-thesis option. Both options require at least 30 credits of course work. 15 of these credits must be taken at NMSU. The thesis option program is designed to teach students modern approaches to chemistry and biochemistry (courses), experimental methods to problem-solving (research), and communication skills in the discipline (seminars and colloquia). All M.S. candidates are required to complete the courses below. Thesis-option students must also pass a qualifying exam at the end of the first year and a final comprehensive examination which includes a written thesis. Non-thesis option students must pass a final exam, the format and content of which will be decided by a departmental committee.

Prefix	Title	Credits
Required Courses		
CHEM 475	Central Concepts in Chemistry - Safety	1
CHEM 476	Central Concepts in Chemistry - Research Ethics	1
CHEM 477	Central Concepts in Chemistry - Professional Development (Required Courses)	1
CHEM 501	Central Concepts in Chemistry - Energy	3
CHEM 502	Central Concepts in Chemistry - Structure	3
CHEM 503	Central Concepts in Chemistry - Dynamics	3
CHEM 504	Central Concepts in Chemistry - Measurements	3
CHEM 510	Graduate Student Seminar ¹	3
CHEM 600	Research ²	9
<i>Additional required course</i> ³		3
Total Credits		30

¹ Only 3 credits of CHEM 510 will count toward the M.S. degree. For the thesis option, at least one credit of CHEM 510 must be taken for a letter grade of B- or better. The remaining CHEM 510 credits for the thesis option and all credits for the non-thesis option may be taken as S/U.

² Required only for thesis-option.

³ Additional courses are chosen based on major emphasis area, through consultation with the thesis committee or an advisor and can include research credits. These courses may include any course numbered 450 or above in the following subject areas: CHEM, BCHE, PHYS, MATH, C S, BIOL, A ST, CHME, GENE, MOLB, SOCI, EDUC, EPWS, ENVS, ANSC.