

Accelerated Graduate Program Proposal
Department of Chemistry and Biochemistry

Accelerated BS-MS degrees in will be offered under the following degree plans:

- (1) B.S. with Chemistry Concentration (ACS-approved) plus MS Chemistry
- (2) B.S. with Biochemistry Concentration (ACS-approved) plus MS Chemistry
- (3) B.A. Chemistry plus MS Chemistry

Admission Requirements

(i) Early Admission - Applicants must meet all of the following Graduate School requirements:

- A minimum undergraduate cumulative GPA of 3.25
- Must have completed at least 15 credit hours of Chemistry or Biochemistry major
- Must have completed a minimum of 60 hours of undergraduate course credit

(ii) Admission to MS graduate candidacy

- Completion of undergraduate degree
- Grades of at least "B" in all shared course work
- Favorable recommendation from undergraduate research advisor at time of admission to MS candidacy

A maximum of 9 credit hours may be shared with the corresponding undergraduate degree. 6 hours of 5XXXZ courses must be taken as shared course work.

Degree Requirements

Required chemistry graduate courses for all accelerated degree plans. See exception note below for biochemistry degree plan

- CHM 5000 - Graduate Seminar I. Credits: 0 (to be repeated every semester)
- CHM 5003 - Critical Reading of Chemical Literature. Credits: 1
- CHM 5180Z - Bioanalytical Problem Solving Credits: 3
- CHM 5300Z - Molecular Spectroscopy. Credits: 3
- CHM 5360Z - Supramolecular Chemistry and Nanotechnology. Credits: 3
- CHM 5420Z - Modern Organic Chemistry. Credits: 3
- CHM 58901 - Graduate Research I. Credits: 1 to 6
- CHM 5950 - Thesis. Credits: 3
- Two additional chemistry courses numbered at or above 4750. Credits: 6

Exception for BS-MS in Biochemistry

Any two required 3 credit chemistry graduate courses can be substituted with approved biology graduate courses with permission of the graduate coordinator. Approved biology graduate courses are:*

- BIO 4835Z - Advanced Neurobiology. Credits: 3
- BIO 4751Z - Advanced Molecular Cell Biology. Credits: 3
- BIO 4836Z - Pathogenic Microbiology. Credits: 3
- BIO 5400Z - Cell Physiology. Credits: 3
- BIO 5406Z - Endocrinology. Credits: 3

*Care must be taken in choosing courses so as not to exceed the total of 12 credit hours allowable at the 4750-4999 level.

The following courses are acceptable as Shared Credit Courses :

- CHM 4750Z - Environmental Chemistry. Credits: 3
- CHM 4770Z - Molecular Spectroscopy. Credits: 3
- CHM 4790Z - Medicinal Chemistry. Credits: 3
- CHM 4800Z - Selected Topics in Chemistry. Credit: 3
- CHM 4860Z - Advanced Biochemistry. Credits: 3
- CHM 4900Z - Inorganic Chemistry II. Credits: 3
- CHM 4915Z - Advanced Laboratory. Credits: 3
- CHM 5100Z - Advanced Analytical Chemistry. Credits: 3
- CHM 5180Z - Bioanalytical Problem Solving. Credits: 3
- CHM 5200Z - Chemical Thermodynamics. Credits: 3
- CHM 5210Z - Bonding and Reactivity. Credits: 3
- CHM 5250Z - Special Topics. Credits: 3
- CHM 5300Z - Molecular Spectroscopy. Credits: 3
- CHM 5360Z - Supramolecular Chemistry. Credits: 3
- CHM 5420Z - Modern Organic Chemistry. Credits: 3
- CHM 5460Z - Advanced Biochemistry. Credits: 3

Additional course, credit hour, and other requirements are listed under each degree plan.

Approved by Chemistry Department: February 27, 2018

Approved by COSCC: March 2, 2018

Approved by CGS: