

## MEMORANDUM

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To: Melissa Jones-Bromenshenkel, Chair, CGS  
Date: February 28, 2019  
RE: Executive Action Taken at the CLAS Curriculum Committee Meeting on Feb 27, 2019

The following request was approved by executive action at the CLAS Curriculum Committee meeting on February 27, 2019. The request would be effective Fall 2019. I ask that similar action be taken at the Council on Graduate Studies.

**Requested change:** To create/add BIO4750Z, BIO4818Z, BIO5250Z, BIO5433Z, BIO5434Z, and BIO5435Z to the list of acceptable courses for the accelerated MS in Chemistry.

**Rationale for change:** The initial approved request to offer an accelerated MS in Chemistry inadvertently omitted all of the above-mentioned courses from the shared credit option, due to the flexibility in choosing elective courses that is built into the undergraduate Biochemistry curriculum.

**Effective Year/Term:** Fall 2019

### **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. **If the total credit earned from shared courses is greater than 9 hours, only 9 hours will count toward both degrees, with remaining hours only counting as undergraduate credit.**

## 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 4750Z – Statistical Analysis of Scientific Data. Credits: 4**
- **BIO 4818Z – Environmental Microbiology. Credits: 4**
- BIO 4835Z - Advanced Neurobiology. Credits: 3
- BIO 4751Z - Advanced Molecular Cell Biology. Credits: 3
- BIO 4836Z - Pathogenic Microbiology. Credits: 3
- **BIO 5250Z – Biological Microtechnique. Credits: 4**
- BIO 5400Z - Cell Physiology. Credits: 3
- BIO 5406Z - Endocrinology. Credits: 3
- **BIO 5433Z - Neurobiology of Diseases. Credits: 4**
- **BIO 5434Z - Neurobiology. Credits: 3**
- **BIO 5435Z - Advanced Neurobiology. 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.