## CHEMISTRY M.S.

## **Admission Requirements**

Complete the following admission requirements:

- · Submit GRE General Test scores.
- If English is not your native language, submit scores from both the Test of Spoken English and the Test of Written English, as well as TOEFL scores. Requests, including justification, for exceptions to this requirement should be made to the chair of the department.

## **Program Requirements**

< Back to Department (https://catalog.uaf.edu/academic-departments/chemistry-biochemistry/)</p>

## Minimum Requirements for Chemistry M.S.: 30 credits

**OPTIONAL CONCENTRATIONS**: BIOCHEMISTRY AND NEUROSCIENCE (P. 1), ENVIRONMENTAL CHEMISTRY (P. 1)

Code Title Credits

#### **General University Requirements**

Complete the graduate general university requirements. (https://catalog.uaf.edu/masters/#gurmastersdegreestext)

#### Master's Degree Requirements

Complete the master's degree requirements. (https://catalog.uaf.edu/masters/#typesofmastersdegrees)

#### **Chemistry Program Requirements**

Complete any deficiencies concurrently with this degree.

Complete two credits of advisory committee-approved 2 seminar courses from the two seminar course choices below.

CHEM F688	Biochemical and Molecular Biology Seminar	
CHEM F691	Research Presentation Techniques	
Complete 7-10 credit committee.	s of courses approved by the advisory	7-10
Concentration		
•	from relevant advisory committee-	6-9

approved graduate-level courses or select one of the following concentrations

Biochemistry and Neuroscience

Biochemistry and Neuroscience

**Environmental Chemistry** 

#### Thesis or Project Requirements

Complete the thesis or project option as described below. 2 12

Total Credits 30

Students in the Biochemistry and Neuroscience concentration should take the Biochemical and Molecular Biology Seminar and students in the Environmental Chemistry concentration should

take Research Presentation Techniques.

The minimum number of credits required is 30. The required M.S. coursework above represents 18 credits. The minimum number of thesis credits required is 6. For the thesis option the remaining 6

credits can either be thesis credits or courses at the F400 level or higher. For the project option, the remaining 6 credits can be courses at the F400 level or higher.

## Thesis or Project Options

### **THESIS OPTION**

Code	Title	Credits	
Complete the follo	owing:		
CHEM F699	Thesis	6	
Thesis credits or of level or higher.	committee-approved courses that are F400	6	
Submit a committee-approved, written research-based thesis proposal and pass an oral comprehensive examination centered on the proposal.			
•	nittee-approved, research-based written n oral defense of the thesis.		
Total Credits		12	

#### **PROJECT OPTION**

Code	litle	Credits
Complete the following:		
CHEM F698	Non-thesis Research/Project	6
Committee-approv	ved courses that are F400 level or higher.	6
	ee-approved, literature-based written project s an oral comprehensive examination roposal.	
	nittee-approved, literature-based written an oral defense of the project.	
Total Credits		12

# **Optional Concentrations**BIOCHEMISTRY AND NEUROSCIENCE

Code	Title	Credits
Biochemistry and No	euroscience Concentration Requirements	
Complete 9 credits f	rom the following list of core courses	9
CHEM F654	Protein Structure and Function	
CHEM F657	Molecular Foundations of Gene Expression	
CHEM F670	Cellular and Molecular Neuroscience	
CHEM F674	Membrane Biochemistry and Biophysics	
CHEM F675	Cellular Signaling	
Total Credits		9

#### **ENVIRONMENTAL CHEMISTRY**

Code	Title	Credits
Environmental Cher	mistry Concentration Requirements	
Complete 6 credits	from the following list of core courses:	6
CHEM F606	Atmospheric Chemistry	
CHEM F609	Aqueous and Environmental Geochemistry	
CHEM F631	<b>Environmental Fate and Transport</b>	

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CHEM F655 Environmental Toxicology	