

Chemistry - Biochemistry, M.S.

This program requires a minimum of 30 semester credit hours.

Requirements for admission are:

- A grade point average of 3.0 on a 4.0 scale;
- 20 hours of approved undergraduate chemistry, including 12 advanced;
- 8 hours of approved physics and 6 hours of calculus.

Students not satisfying these requirements may be admitted conditionally. The School of Mathematics and Physical Sciences, in examining the applicant's prerequisites, may accept equivalent hours or require additional work. An entering graduate student is normally subjected to five placement examinations in analytical, biochemistry, inorganic, organic and physical chemistry that are used for advising the student's beginning course work.

Thesis Option

Code	Title	Semester Credit Hours
Core Requirements		
CHEM 5300	Chemistry Graduate Practice	0
CHEM 5341	Biochem Analysis of Proteins	3
CHEM 5342	Biochem Analysis of Gene Ex	3
Thesis Requirement		
CHEM 5306	Thesis Research	3
CHEM 5306	Thesis Research	3
Approved Electives ¹		
Elective		3
Elective		3
Elective		3
Elective		3
Elective		3
Elective		3
Total Semester Credit Hours		30

¹ Approved electives are graduate-level chemistry or biology courses. Other appropriate courses can be accepted as part of the student's degree plan with approval of the student's Graduate Coordinator and the Director of the School of Mathematics and Physical Sciences.

Students may take a maximum of 6 semester credit hours of CHEM 5365 (this course is repeatable). CHEM 5412, BIOL 5302, and BIOL 5402 may be repeated for credit under different topics.

Research Project Option

Code	Title	Semester Credit Hours
Core Requirements		
CHEM 5300	Chemistry Graduate Practice	0
CHEM 5341	Biochem Analysis of Proteins	3
CHEM 5342	Biochem Analysis of Gene Ex	3
Research Project Requirement		
CHEM 5305	Project Research	3
Approved Electives ¹		
Elective		3
Elective		3

Elective	3
Elective	3
Elective	3
Elective	3
Elective	3
Total Semester Credit Hours	30

¹ Approved electives are graduate-level chemistry or biology courses. Other appropriate courses can be accepted as part of the student's degree plan with approval of the student's Graduate Coordinator and the Director of the School of Mathematics and Physical Sciences.

CHEM 5412, BIOL 5302, and BIOL 5402 may be repeated for credit under different topics.

Course Only Option

Code	Title	Semester Credit Hours
Core Requirements		
CHEM 5341	Biochem Analysis of Proteins	3
CHEM 5342	Biochem Analysis of Gene Ex	3
Approved Electives ¹		
Elective		3
Elective		3
Elective		3
Elective		3
Elective		3
Elective		3
Elective		3
Elective		3
Total Semester Credit Hours		30

¹ Approved electives are graduate-level chemistry or biology courses. Other appropriate courses can be accepted as part of the student's degree plan with approval of the student's Graduate Coordinator and the Director of the School of Mathematics and Physical Sciences.

CHEM 5412, BIOL 5302, and BIOL 5402 may be repeated for credit under different topics.