CHEMISTRY, BIOCHEMISTRY CONCENTRATION (M.S.)

Program Requirements

Core Courses

CHEM 570 Advanced Biochemistry 3

Select two of the following: 6

CHEM 520 Advanced Inorganic Chemistry
CHEM 530 Advanced Organic Chemistry
CHEM 540 Advanced Physical Chemistry
CHEM 560 Advanced Analytical Chemistry

Electives

Select 17-21 credits from the following: 17-21

CHEM 510 Hazardous Materials Management
CHEM 520 Advanced Inorganic Chemistry
CHEM 525 Bioinorganic Chemistry
CHEM 530 Advanced Organic Chemistry
CHEM 534 Separation and Analysis
CHEM 538 Drug Design in Medicinal Chemistry
CHEM 540 Advanced Physical Chemistry
CHEM 560 Advanced Analytical Chemistry
CHEM 574 Protein Structure
CHEM 575 Enzyme Kinetics and Mechanisms
CHEM 577 Nucleic Acid Biochemistry
CHEM 578 Biochemistry Laboratory Techniques
CHEM 579 Biomolecular Assay Development
CHEM 582 Biochemical Pharmacology

Select 0-6 credits from the following: 0-6

BIOL 505 Experimental Cell Culture
BIOL 512 Topics in Modern Genetics
BIOL 547 Molecular Biology I
BIOL 548 Molecular Biology II
BIOL 594 Signal Transduction
BIOL 598 Selected Techniques in Molecular Biology

Research Options

Select either the Graduate Literature Search Option or the Research & Thesis option:

Graduate Literature Search

CHEM 598 Graduate Literature Search
CHEM 599 Graduate Seminar

Research & Thesis

CHEM 595 Graduate Research
CHEM 698 Master’s Thesis

Submit the completed Thesis original and one copy to the Graduate Office. See Thesis Guidelines for details.

Culminating Experience

Make a seminar presentation in conjunction with Research option.
Graduate School must be notified when complete.

Total Credits 32