

Graduate Degree Courses and Certificates

Courses

Fall (odd years)

Chem 4712 Biochemistry
Chem 5212 Advanced Instrumental Analysis
Chem 5396 Physical Chemistry Directed Readings
Chem 5412 Graduate Inorganic Chemistry
Chem 5462 Organometallic Chemistry
Chem 5612 Organic Chemistry II – Reactions/Synthesis
Chem 5772 Advanced Physical Biochemistry
Chem 5794 Special Topics in Biochemistry (Bashkin)
Chem 6897 Colloquium

Spring (even years)

Chem 5294 Special Topics in Analytical Chemistry
Chem 5302 Foundations of Physical Chemistry
Chem 5602 Advanced Organic Chemistry I – Physical Organic
Chem 5694 Special Topics in Organic Chemistry (Bauer)
Chem 5722 Advanced Graduate Biochemistry
Chem 6897 Colloquium

Fall (even years)

Chem 4712 Biochemistry
Chem 5212 Advanced Instrumental Analysis
Chem 5294 Special Topics in Analytical Chemistry
Chem 5396 Physical Chemistry Directed Readings
Chem 5412 Graduate Inorganic Chemistry
Chem 5612 Organic Chemistry II – Reactions/Synthesis
Chem 5772 Advanced Physical Biochemistry
Chem 5774 Bioinformatics
Chem 6897 Colloquium

Spring (odd years)

Chem 5302 Foundations of Physical Chemistry
Chem 5602 Advanced Organic Chemistry I – Physical Organic
Chem 5652 Spectroscopic Identification of Organic Compounds
Chem 5722 Advanced Graduate Biochemistry
Chem 5794 Special Topics in Biochemistry (Nichols)
Chem 5794 Special Topics in Biochemistry (Stine)
Chem 6897 Colloquium

Graduate Certificates

Organic

Required

CHEM 5602	Advanced Organic Chemistry I – Physical Organic (3 h)
CHEM 5612	Advanced Organic Chemistry II – Reactions/Synthesis (3 h)
CHEM 5652	Spectroscopic Identification of Organic Compounds (3 h)

Electives (choose a total of 3 credit hours)

CHEM 5694	Special Topics in Organic Chemistry (3 h)
CHEM 6905	Graduate Research (3 h)

Biochemistry

Required

CHEM 5722	Advanced Graduate Biochemistry (3 h)
CHEM 5772	Advanced Physical Biochemistry (3 h)
CHEM 5774	Bioinformatics (3 h)

Electives (choose a total of 3 credit hours)

CHEM 5794	Special Topics in Biochemistry (3 h)
CHEM 4733	Biochemistry Lab (2 h)
CHEM 6787	Problem Seminar in Biochemistry (1-3 h)
CHEM 6905	Graduate Research (1-3 h)

Analytical

Required

CHEM 5212	Advanced Instrumental Analysis (3 h)
CHEM 5652	Spectroscopic Identification of Organic Compounds (3 h)
CHEM 5294	Special Topics in Analytical Chemistry (3 h)

Electives (choose a total of 3 credit hours)

CHEM 5772	Advanced Physical Biochemistry (3 h)
CHEM 6905	Graduate Research (1-3 h)
CHEM 4733	Biochemistry Lab (2 h)

Inorganic

Required

CHEM 5412	Advanced Graduate Inorganic Chemistry (3 h)
CHEM 5462	Organometallic Chemistry of the Transition Elements (3 h)
CHEM 5422	Coordination Chemistry (3 h)

Electives (choose a total of 3 credit hours)

CHEM 5494
CHEM 6905

Special Topics in Inorganic Chemistry (3 h)
Graduate Research (3 h)