Chemistry Courses: Summer 2024

CHEM100601
Thinking Like a Chemist
Hartmann, Nathaniel J;Keen, Clarissa
Summer 2024
This course is intended to prepare students for the General Chemistry sequence and will develop students' confidence with core chemistry concepts such as characterizing substances and mixtures, structure-property relationships, chemical reactions, energy, and equilibrium. Students will explore these concepts through real-world examples with a focus on developing problem solving skills and recognizing the cumulative nature of the topics. Students will also discuss best practices for notetaking and study habits for succeeding in chemistry.

Credits: 1
Room and Schedule: MTuWThF 01:00PM-02:45PM;O'Neill Library 257
Satisifies Core Requirement: None
Prerequisites: Permission of Instructor
Corequisites: None
Cross-listed with: None
Frequency: Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM101101
General Chemistry I (summer)
Sliker, Sarah Q
Summer 2024
This course will only be offered during the summer session. This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry. Topics include: atoms and molecules; stoichiometry and introduction to reactions in aqueous solutions; properties of gases; thermochemistry and the first law of thermodynamics; quantum theory and atomic structure; chemical periodicity; and bonding in diatomic and polyatomic molecules.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 MTuWTh 09:00AM-11:30AM
Satisifies Core Requirement: Natural Science

Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM101201
General Chemistry II (summer)
Sliker, Sarah Q
Summer 2024
This course will only be offered during the summer session. This course is a continuation of CHEM1011. Topics include: properties of solids and liquids; colligative properties; chemical kinetics; equilibrium; acids, bases, and buffers; solubility and precipitation; spontaneity, free energy, and the second law of thermodynamics; and electrochemistry.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 MTuWTh 09:00AM-11:30AM
Satisifies Core Requirement: Natural Science
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM101301
General Chemistry Lab I (summer)
Sliker, Sarah Q
Summer 2024

This course will only be offered during the summer session. Experiments in this course reflect and apply the principles learned in the lecture course (CHEM1011). Students will be introduced to techniques and procedures commonly used in chemistry labs and develop skills for acquiring and analyzing data.

Credits: 1
Room and Schedule: Merkert Chemistry Center 113 MTuW 12:00 Noon-03:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM101401
General Chemistry Lab II (summer)
Sliker, Sarah Q
Summer 2024
This course will only be offered during the summer session. Experiments in this course reflect and apply the principles learned in the lecture course (CHEM1012). Students will be introduced to techniques and procedures commonly used in chemistry labs and develop skills for acquiring and analyzing data.

Credits: 1
Room and Schedule: Merkert Chemistry Center 113 MTuW 12:00 Noon-03:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM201101

Organic Chemistry I (summer)
Atkinson, Karen E
Summer 2024
This course will only be offered during the summer session. This course provides an introduction to the properties and applications of organic molecules and reactions. An understanding of the relationship between molecular structure and function with an emphasis on mechanisticprinciples is emphasized. This course is intended for students with an interest in science or medicine.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 MTuThF 09:30AM-12:00 Noon
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM201201
Organic Chemistry II (summer)
Atkinson, Karen E
Summer 2024
This course will only be offered during the summer session. This course provides an introduction to the properties and applications of organic molecules and reactions. An understanding of the relationship between molecular structure and function with an emphasis on mechanistic principles is emphasized. This course is intended for students with an interest in scienceor medicine.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 MTuThF 09:30AM-12:00 Noon
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Summer
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM201301
Organic Chemistry Lab I (summer)
Atkinson, Karen E
Summer 2024
This course will only be offered during the summer session. Students will acquire fundamental organic separation and purification techniques. Reactions that are studied in class will be performed in the laboratory. Compounds are analyzed using a variety of methods including spectroscopy.

Credits: 1
Room and Schedule: Merkert Chemistry Center 21 MTuTh 12:30PM-04:30PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM201401
Organic Chemistry Lab II (summer)
Atkinson, Karen E
Summer 2024
This course will only be offered during the summer session. Students will acquire fundamental organic separation and purification techniques. Reactions that are studied in class will be performed in the laboratory. Compounds are analyzed using a variety of methods including spectroscopy.

Credits: 1
Room and Schedule: Merkert Chemistry Center 21 MTuTh 12:30PM-04:30PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None

Cross-listed with: None
Frequency: Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM888801
Interim Study
Mahoney, Dale L
Summer 2024
TBD

Credits: 0
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

CHEM999901
Doctoral Continuation
Mahoney, Dale L
Summer 2024
All students who have been admitted to candidacy for the Ph.D. degree are required to register and pay the fee for doctoral continuation during each semester of their candidacy. Doctoral Continuation requires a commitment of at least 20 hours per week working on the dissertation.

Credits: 0
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None

Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

Chemistry Courses: Fall 2024

CHEM110501
Chemistry and Society I
Keen, Clarissa
Fall 2024
For non-science majors or for those who do not require a lab science course. This is a two-semester sequence with the emphasis during the first semester placed on basic chemical principles and their application to environmental issues. Topics covered include air and water pollution, global warming, ozone depletion, hazardous waste, and energy use and alternative energy sources. The goal of the course is to develop a knowledge base from which one can make intelligent decisions about local global environmental issues as well as formulate solutions to the ever-increasingly complex problems of today's technological society.

Credits: 3
Room and Schedule: Fulton Hall 511 (Auditorium) TuTh 03:00PM-04:15PM
Satisifies Core Requirement: Natural Science
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110901
General Chemistry I
Hartmann, Nathaniel J
Fall 2024

This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 3
Room and Schedule: Devlin Hall 8 MWF 09:00AM-09:50AM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110902
General Chemistry I
Michaud, Richard Andrew, Jr.
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 Tu 04:00PM-04:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110903
General Chemistry I
Nair, Malavika Asokan
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 M 01:00PM-01:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110904
General Chemistry I
Ahn, Jin ook
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 W 05:00PM-05:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110905
General Chemistry I
Nair, Malavika Asokan
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 M 12:00 Noon-12:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110906
General Chemistry I
Ahn, Jin ook
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 W 11:00AM-11:50AM

Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110907
General Chemistry I
Michaud, Richard Andrew, Jr.
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 Tu 03:00PM-03:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110908
General Chemistry I
Fox, Daniel J
Fall 2024

This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 MWF 01:00PM-01:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110909
General Chemistry I
Akinniyi, Akinwande Solomon
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 W 03:00PM-03:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110910
General Chemistry I
Pugliano, Nicholas J
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 F 12:00 Noon-12:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110911
General Chemistry I
Platt, Jillian Grace
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 M 11:00AM-11:50AM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110912
General Chemistry I
Platt, Jillian Grace
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 M 09:00AM-09:50AM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110913
General Chemistry I
Pugliano, Nicholas J
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 Tu 05:00PM-05:50PM

Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110914
General Chemistry I
Akinniyi, Akinwande Solomon
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 W 02:00PM-02:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110915
General Chemistry I
Keen, Clarissa
Fall 2024

This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 TuTh 12:00 Noon-01:15PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110916
General Chemistry I
Szalay, Kaitlyn H
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 M 04:00PM-04:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110917
General Chemistry I
Szalay, Kaitlyn H
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 M 02:00PM-02:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110918
General Chemistry I
Dinh, Henry Hoa
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 W 04:00PM-04:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110919
General Chemistry I
Dinh, Henry Hoa
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 F 01:00PM-01:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110920
General Chemistry I
Dinh, Henry Hoa
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 130 W 01:00PM-01:50PM

Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110921
General Chemistry I
Dinh, Henry Hoa
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 F 10:00AM-10:50AM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110922
General Chemistry I
Hartmann, Nathaniel J
Fall 2024

This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 3
Room and Schedule: Devlin Hall 8 MWF 09:00AM-09:50AM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110923
General Chemistry I
Fox, Daniel J
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110924
General Chemistry I
Akinniyi, Akinwande Solomon
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 M 03:00PM-03:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110925
General Chemistry I
Pugliano, Nicholas J
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 Th 03:00PM-03:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110926
General Chemistry I
Platt, Jillian Grace
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 W 10:00AM-10:50AM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110927
General Chemistry I
Platt, Jillian Grace
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 W 01:00PM-01:50PM

Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110928
General Chemistry I
Akinniyi, Akinwande Solomon
Fall 2024
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 F 11:00AM-11:50AM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM110929
General Chemistry I
Pugliano, Nicholas J
Fall 2024

This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships and chemical equilibrium and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 F 02:00PM-02:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: One year of high school chemistry.
Corequisites: CHEM1111
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111101
General Chemistry Laboratory I
Grimaud, Alexis
Fall 2024
Laboratory required of all students enrolled in CHEM1109. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 M 10:00AM-12:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1109
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111102
General Chemistry Laboratory I
Chatterjee, Abhishek
Fall 2024
Laboratory required of all students enrolled in CHEM1109. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 Tu 09:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1109
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111103
General Chemistry Laboratory I
Bao, Junwei L
Fall 2024
Laboratory required of all students enrolled in CHEM1109. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 W 10:00AM-12:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1109
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM111104
General Chemistry Laboratory I
Gao, Jianmin
Fall 2024
Laboratory required of all students enrolled in CHEM1109. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 Th 09:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1109
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111105
General Chemistry Laboratory I
Niu, Jia
Fall 2024
Laboratory required of all students enrolled in CHEM1109. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 F 10:00AM-12:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1109

Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111106
General Chemistry Laboratory I
Fox, Daniel J
Fall 2024
Laboratory required of all students enrolled in CHEM1109. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 M 02:00PM-04:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1109
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111107
General Chemistry Laboratory I
Wang, Dunwei
Fall 2024
Laboratory required of all students enrolled in CHEM1109. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 Tu 01:30PM-04:20PM

Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1109
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111108
General Chemistry Laboratory I
Mohanty, Udayan
Fall 2024
Laboratory required of all students enrolled in CHEM1109. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 W 02:00PM-04:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1109
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111109
General Chemistry Laboratory I
Waegele, Matthias
Fall 2024

Laboratory required of all students enrolled in CHEM1109. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 Th 01:30PM-04:20PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1109
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111110
General Chemistry Laboratory I
Zhou, Huiqing
Fall 2024
Laboratory required of all students enrolled in CHEM1109. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 F 02:00PM-04:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1109
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111111

General Chemistry Laboratory I
Young, Allison P
Fall 2024
Laboratory required of all students enrolled in CHEM1109. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 M 05:30PM-08:20PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1109
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111112
General Chemistry Laboratory I
Parr, Ian B
Fall 2024
Laboratory required of all students enrolled in CHEM1109. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 Tu 05:30PM-08:20PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1109
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111113
General Chemistry Laboratory I
Jayasundera, Thusitha
Fall 2024
Laboratory required of all students enrolled in CHEM1109. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 W 05:30PM-08:20PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1109
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111114
General Chemistry Laboratory I
Parr, Ian B
Fall 2024
Laboratory required of all students enrolled in CHEM1109. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 Th 05:30PM-08:20PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1109
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM111701
Honors Modern Chemistry I
Waegele, Matthias
Fall 2024
This course is intended for students from any major (including undecided) with a strong foundation and interest in chemistry. CHEM1117 begins with the theoretical description of atomic and molecular structure and with examples of modern experimental techniques for visualizing and manipulating individual atoms and molecules. The laws of thermodynamics and kinetics are studied to understand why chemical reactions occur at all, why it is that once reactions start they can't go all the way to completion, and how molecules act as catalysts to speed up reactions without being consumed themselves.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 TuTh 09:00AM-10:15AM
Satisifies Core Requirement: Natural Science
Prerequisites: None
Corequisites: CHEM1119
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111702
Honors Modern Chemistry I
Wu, Sammi S
Fall 2024

This course is intended for students from any major (including undecided) with a strong foundation and interest in chemistry. CHEM1117 begins with the theoretical description of atomic and molecular structure and with examples of modern experimental techniques for visualizing and manipulating individual atoms and molecules. The laws of thermodynamics and kinetics are studied to understand why chemical reactions occur at all, why it is that once reactions start they can't go all the way to completion, and how molecules act as catalysts to speed up reactions without being consumed themselves.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 Tu 06:00PM-06:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: None
Corequisites: CHEM1119
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111703
Honors Modern Chemistry I
Wu, Sammi S
Fall 2024

This course is intended for students from any major (including undecided) with a strong foundation and interest in chemistry. CHEM1117 begins with the theoretical description of atomic and molecular structure and with examples of modern experimental techniques for visualizing and manipulating individual atoms and molecules. The laws of thermodynamics and kinetics are studied to understand why chemical reactions occur at all, why it is that once reactions start they can't go all the way to completion, and how molecules act as catalysts to speed up reactions without being consumed themselves.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 W 06:00PM-06:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: None
Corequisites: CHEM1119
Cross-listed with: None
Frequency: Every Fall

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111901
Honors Modern Chemistry Laboratory I
Young, Allison P
Fall 2024
Laboratory required for all students enrolled in CHEM1117. This laboratory course stresses discovery-based experiments. It uses state-of-the-art instrumentation to illustrate the principles discussed in CHEM1117-1118 and introduces students to techniques used in modern chemical research. One three-hour period per week.

Credits: 1
Room and Schedule: Merkert Chemistry Center 120 M 01:00PM-04:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1117
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111902
Honors Modern Chemistry Laboratory I
Young, Allison P
Fall 2024
Laboratory required for all students enrolled in CHEM1117. This laboratory course stresses discovery-based experiments. It uses state-of-the-art instrumentation to illustrate the principles discussed in CHEM1117-1118 and introduces students to techniques used in modern chemical research. One three-hour period per week.

Credits: 1
Room and Schedule: Merkert Chemistry Center 120 M 05:30PM-08:30PM
Satisifies Core Requirement: None
Prerequisites: None

Corequisites: CHEM1117
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM112701
Gateway: General Chemistry Discussion I
Mimouni, Khalil
Fall 2024
Required of all students in Gateway General Chemistry. Discussion will offer a comprehensive review of the material presented in lecture, with a focus on the key mathematical and chemical concepts needed for problem-solving, in a small group setting.

Credits: 1
Room and Schedule: Higgins Hall 265 Th 04:30PM-05:20PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1109
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM112702
Gateway: General Chemistry Discussion I
Mimouni, Khalil
Fall 2024
Required of all students in Gateway General Chemistry. Discussion will offer a comprehensive review of the material presented in lecture, with a focus on the key mathematical and chemical concepts needed for problem-solving, in a small group setting.

Credits: 1
Room and Schedule: Higgins Hall 265 Th 05:30PM-06:20PM
Satisifies Core Requirement: None

Prerequisites: None
Corequisites: CHEM1109
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM116101
Life Science Chemistry
Hartmann, Nathaniel J
Fall 2024
This course first introduces basic chemical principles in preparation for a discussion of the chemistry of living systems that forms the major part of the course. Organic chemical concepts will be introduced as necessary, and applications will be made wherever possible to physiological processes and disease states that can be understood in terms of their underlying chemistry.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 TuTh 10:30AM-11:45AM
Satisifies Core Requirement: Natural Science
Prerequisites: None
Corequisites: CHEM1163
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM116102
Life Science Chemistry
Vishwanath, Vaishnavi
Fall 2024

This course first introduces basic chemical principles in preparation for a discussion of the chemistry of living systems that forms the major part of the course. Organic chemical concepts will be introduced as necessary, and applications will be made wherever possible to physiological processes and disease states that can be understood in terms of their underlying chemistry.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 Tu 02:00PM-02:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: None
Corequisites: CHEM1163
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM116103
Life Science Chemistry
Vishwanath, Vaishnavi
Fall 2024
This course first introduces basic chemical principles in preparation for a discussion of the chemistry of living systems that forms the major part of the course. Organic chemical concepts will be introduced as necessary, and applications will be made wherever possible to physiological processes and disease states that can be understood in terms of their underlying chemistry.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 M 05:00PM-05:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: None
Corequisites: CHEM1163
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM116104
Life Science Chemistry
Vishwanath, Vaishnavi
Fall 2024
This course first introduces basic chemical principles in preparation for a discussion of the chemistry of living systems that forms the major part of the course. Organic chemical concepts will be introduced as necessary, and applications will be made wherever possible to physiological processes and disease states that can be understood in terms of their underlying chemistry.

Credits: 0
Room and Schedule: Merkert Chemistry Center 130 M 06:00PM-06:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: None
Corequisites: CHEM1163
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM116105
Life Science Chemistry
Vishwanath, Vaishnavi
Fall 2024
This course first introduces basic chemical principles in preparation for a discussion of the chemistry of living systems that forms the major part of the course. Organic chemical concepts will be introduced as necessary, and applications will be made wherever possible to physiological processes and disease states that can be understood in terms of their underlying chemistry.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 Th 02:00PM-02:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: None
Corequisites: CHEM1163
Cross-listed with: None
Frequency: Every Fall

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM116301
Life Science Chemistry Laboratory
Fox, Daniel J
Fall 2024
A laboratory course that includes experiments illustrating chemical principles and the properties of compounds consistent with CHEM1161.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 W 09:00AM-11:45AM
Satisifies Core Requirement: Natural Science
Prerequisites: None
Corequisites: CHEM1161
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM116302
Life Science Chemistry Laboratory
Fox, Daniel J
Fall 2024
A laboratory course that includes experiments illustrating chemical principles and the properties of compounds consistent with CHEM1161.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 F 09:00AM-11:45AM
Satisifies Core Requirement: Natural Science
Prerequisites: None
Corequisites: CHEM1161
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM223101
Organic Chemistry I
Deak, Holly L
Fall 2024
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223102
Organic Chemistry I
Kubenik, Trevor K
Fall 2024
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 W 03:00PM-03:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233

Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223103
Organic Chemistry I
Pratt, Jared C
Fall 2024
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 130 F 01:00PM-01:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223104
Organic Chemistry I
Pratt, Jared C
Fall 2024
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 130 F 02:00PM-02:50PM

Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223105
Organic Chemistry I
Yassine, Dima
Fall 2024
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Campion Hall 231 W 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223106
Organic Chemistry I
Yassine, Dima
Fall 2024

An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 Tu 05:00PM-05:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223107
Organic Chemistry I
Deak, Holly L
Fall 2024
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 MWF 09:00AM-09:50AM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223108

Organic Chemistry I
Tee, Kai Ze
Fall 2024
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 M 03:00PM-03:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223109
Organic Chemistry I
Sinise, Sarah E
Fall 2024
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 W 04:00PM-04:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223110
Organic Chemistry I
Sinise, Sarah E
Fall 2024
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 W 05:00PM-05:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223111
Organic Chemistry I
Tee, Kai Ze
Fall 2024
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 130 M 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM223112
Organic Chemistry I
Deak, Holly L
Fall 2024
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223113
Organic Chemistry I
Snapper, Marc
Fall 2024
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 MWF 11:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233

Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223114
Organic Chemistry I
Mukai, Shoma
Fall 2024
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 M 04:00PM-04:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223115
Organic Chemistry I
Mukai, Shoma
Fall 2024
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 M 05:00PM-05:50PM

Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223116
Organic Chemistry I
Cheng, Ling
Fall 2024
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Campion Hall 204 Th 03:00PM-03:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223117
Organic Chemistry I
Cheng, Ling
Fall 2024

An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties, reaction mechanisms, and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Campion Hall 204 Th 04:00PM-04:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 or Note that CHEM2231 is a prerequisite for CHEM2232
Corequisites: CHEM2233
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223301
Organic Chemistry Laboratory I
Snapper, Marc
Fall 2024
Laboratory required of all students enrolled in CHEM2231. One four-hour period per week. Students acquire fundamental organic lab techniques in the context of principles learned in the lecture course. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 M 12:00 Noon-03:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM2231
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223302

Organic Chemistry Laboratory I
Liu, Shih-Yuan
Fall 2024
Laboratory required of all students enrolled in CHEM2231. One four-hour period per week. Students acquire fundamental organic lab techniques in the context of principles learned in the lecture course. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 Tu 12:00 Noon-03:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM2231
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223303
Organic Chemistry Laboratory I
Deak, Holly L
Fall 2024
Laboratory required of all students enrolled in CHEM2231. One four-hour period per week. Students acquire fundamental organic lab techniques in the context of principles learned in the lecture course. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 W 12:15PM-04:05PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM2231
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223304
Organic Chemistry Laboratory I
Morken, James P
Fall 2024
Laboratory required of all students enrolled in CHEM2231. One four-hour period per week. Students acquire fundamental organic lab techniques in the context of principles learned in the lecture course. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 Th 12:00 Noon-03:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM2231
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223305
Organic Chemistry Laboratory I
Zhang, Xiao-Xiang
Fall 2024
Laboratory required of all students enrolled in CHEM2231. One four-hour period per week. Students acquire fundamental organic lab techniques in the context of principles learned in the lecture course. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 F 01:00PM-04:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM2231
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM223306
Organic Chemistry Laboratory I
Young, Allison P
Fall 2024
Laboratory required of all students enrolled in CHEM2231. One four-hour period per week. Students acquire fundamental organic lab techniques in the context of principles learned in the lecture course. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 M 05:00PM-08:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM2231
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223307
Organic Chemistry Laboratory I
Parr, Ian B
Fall 2024
Laboratory required of all students enrolled in CHEM2231. One four-hour period per week. Students acquire fundamental organic lab techniques in the context of principles learned in the lecture course. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 Tu 05:00PM-08:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM2231

Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223308
Organic Chemistry Laboratory I
Jayasundera, Thusitha
Fall 2024
Laboratory required of all students enrolled in CHEM2231. One four-hour period per week. Students acquire fundamental organic lab techniques in the context of principles learned in the lecture course. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 W 05:00PM-08:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM2231
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223309
Organic Chemistry Laboratory I
Parr, Ian B
Fall 2024
Laboratory required of all students enrolled in CHEM2231. One four-hour period per week. Students acquire fundamental organic lab techniques in the context of principles learned in the lecture course. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 Th 05:00PM-08:50PM

Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM2231
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223701
Gateway: Organic Chemistry Discussion I
Kubenik, Trevor K
Fall 2024
Required of all students in Gateway Organic Chemistry. Discussion will offer a fairly comprehensive review of the material presented in lecture, with a focus on the key concepts needed for problem-solving in a small group setting.

Credits: 1
Room and Schedule: Merkert Chemistry Center 127 W 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM2231
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM224101
Honors Organic Chemistry I
Zhang, Xiao-Xiang
Fall 2024

This course is a continuation of the CHEM1117-1118 honors sequence and will concentrate on the structure, bonding, and reactivity of organic compounds. Particular emphasis will be placed on stereochemistry, conformational analysis, reaction mechanisms, principles of organic synthesis, and modern spectroscopic methods.

Credits: 3
Room and Schedule: Merkert Chemistry Center 129 TuTh 09:00AM-10:15AM
Satisifies Core Requirement: None
Prerequisites: CHEM1118 and CHEM1117 and CHEM1119 and CHEM1120
Corequisites: CHEM2243
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM224102
Honors Organic Chemistry I
Filkin, William Henry
Fall 2024
This course is a continuation of the CHEM1117-1118 honors sequence and will concentrate on the structure, bonding, and reactivity of organic compounds. Particular emphasis will be placed on stereochemistry, conformational analysis, reaction mechanisms, principles of organic synthesis, and modern spectroscopic methods.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 W 06:00PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM1118 and CHEM1117 and CHEM1119 and CHEM1120
Corequisites: CHEM2243
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM224103

Honors Organic Chemistry I
Filkin, William Henry
Fall 2024
This course is a continuation of the CHEM1117-1118 honors sequence and will concentrate on the structure, bonding, and reactivity of organic compounds. Particular emphasis will be placed on stereochemistry, conformational analysis, reaction mechanisms, principles of organic synthesis, and modern spectroscopic methods.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 Tu 06:00PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM1118 and CHEM1117 and CHEM1119 and CHEM1120
Corequisites: CHEM2243
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM224301
Honors Organic Chemistry I Laboratory
Young, Allison P
Fall 2024
Laboratory course required for students enrolled in Honors Organic Chemistry (CHEM2241). Students will be instructed in experimental techniques relevant to research in contemporary organic chemistry. It will solidify concepts that are taught in lecture and provide a forum for discovery-based learning in organic chemistry.

Credits: 1
Room and Schedule: Merkert Chemistry Center 21 W 12:15PM-04:15PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM2241
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM224302
Honors Organic Chemistry I Laboratory
Young, Allison P
Fall 2024
Laboratory course required for students enrolled in Honors Organic Chemistry (CHEM2241). Students will be instructed in experimental techniques relevant to research in contemporary organic chemistry. It will solidify concepts that are taught in lecture and provide a forum for discovery-based learning in organic chemistry.

Credits: 1
Room and Schedule: Merkert Chemistry Center 21 Th 12:00 Noon-04:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM2241
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM224303
Honors Organic Chemistry I Laboratory
Morken, James P
Fall 2024
Laboratory course required for students enrolled in Honors Organic Chemistry (CHEM2241). Students will be instructed in experimental techniques relevant to research in contemporary organic chemistry. It will solidify concepts that are taught in lecture and provide a forum for discovery-based learning in organic chemistry.

Credits: 1
Room and Schedule: Campion Hall 204 M 03:00PM-03:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM2241
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM332001
Introduction to Geochemistry
Wang, Xingchen
Fall 2024
This course will apply the principles of chemistry to investigate the chemical compositions of the Earth system, including the atmosphere, hydrosphere, biosphere, and lithosphere. Topics will include the origin of elements in the solar system; distribution of elements in the core, mantle, and crust; cycling of carbon, nitrogen, phosphorus, and other elements in the Earth's surface environments; radiometric dating techniques; and stable isotope geochemistry.

Credits: 3
Room and Schedule: Devlin Hall 307 TuTh 01:30PM-02:45PM
Satisifies Core Requirement: None
Prerequisites: One semester of high school level general chemistry or permission from the instructor
Corequisites: None
Cross-listed with: EESC3320
Frequency: Periodically
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM335101
Analytical Chemistry
Metz, Kenneth R, PHD
Fall 2024
Designed primarily for sophomore and junior students, this course is an introduction to the principles and practice of analytical chemistry, including the statistical analysis of data and widely-used chemical methods and instrumental approaches such as chromatography, spectrophotometry, and electrochemistry. In the laboratory, the aims are for students to develop good analytical technique and to acquire accurate, precise data.

Credits: 4
Room and Schedule: Merkert Chemistry Center 130 MWF 11:00AM-11:50AM

Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM335103
Analytical Chemistry
Metz, Kenneth R, PHD
Fall 2024
Designed primarily for sophomore and junior students, this course is an introduction to the principles and practice of analytical chemistry, including the statistical analysis of data and widely-used chemical methods and instrumental approaches such as chromatography, spectrophotometry, and electrochemistry. In the laboratory, the aims are for students to develop good analytical technique and to acquire accurate, precise data.

Credits: 0
Room and Schedule: Merkert Chemistry Center 120 Th 01:00PM-05:00PM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM335104
Analytical Chemistry
Metz, Kenneth R, PHD
Fall 2024

Designed primarily for sophomore and junior students, this course is an introduction to the principles and practice of analytical chemistry, including the statistical analysis of data and widely-used chemical methods and instrumental approaches such as chromatography, spectrophotometry, and electrochemistry. In the laboratory, the aims are for students to develop good analytical technique and to acquire accurate, precise data.

Credits: 0
Room and Schedule: Merkert Chemistry Center 120 W 05:00PM-09:00PM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM335105
Analytical Chemistry
Metz, Kenneth R, PHD
Fall 2024
Designed primarily for sophomore and junior students, this course is an introduction to the principles and practice of analytical chemistry, including the statistical analysis of data and widely-used chemical methods and instrumental approaches such as chromatography, spectrophotometry, and electrochemistry. In the laboratory, the aims are for students to develop good analytical technique and to acquire accurate, precise data.

Credits: 0
Room and Schedule: Merkert Chemistry Center 120 W 01:00PM-05:00PM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM335106
Analytical Chemistry
Maher, Allison M
Fall 2024
Designed primarily for sophomore and junior students, this course is an introduction to the principles and practice of analytical chemistry, including the statistical analysis of data and widely-used chemical methods and instrumental approaches such as chromatography, spectrophotometry, and electrochemistry. In the laboratory, the aims are for students to develop good analytical technique and to acquire accurate, precise data.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 Tu 03:00PM-03:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM335107
Analytical Chemistry
Maher, Allison M
Fall 2024
Designed primarily for sophomore and junior students, this course is an introduction to the principles and practice of analytical chemistry, including the statistical analysis of data and widely-used chemical methods and instrumental approaches such as chromatography, spectrophotometry, and electrochemistry. In the laboratory, the aims are for students to develop good analytical technique and to acquire accurate, precise data.

Credits: 0
Room and Schedule: Merkert Chemistry Center 130 W 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109
Corequisites: None
Cross-listed with: None
Frequency: Every Fall

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339701
Research Module 1
Waegele, Matthias
Fall 2024
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339702
Research Module 1
Weerapana, Eranthie
Fall 2024
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM339703
Research Module 1
Liu, Shih-Yuan
Fall 2024
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339704
Research Module 1
Chatterjee, Abhishek
Fall 2024
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM339705
Research Module 1
Zhang, Xiao-Xiang
Fall 2024
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339706
Research Module 1
Niu, Jia
Fall 2024
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM339707
Research Module 1
Wang, Dunwei
Fall 2024
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339709
Research Module 1
Bao, Junwei L
Fall 2024
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM339801
Research Module 2
Weerapana, Eranthie
Fall 2024
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 2
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339802
Research Module 2
Niu, Jia
Fall 2024
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 2
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM339803
Research Module 2
Liu, Shih-Yuan
Fall 2024
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 2
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339804
Research Module 2
Chatterjee, Abhishek
Fall 2024
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 2
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM339805
Research Module 2
Grimaud, Alexis
Fall 2024
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 2
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339806
Research Module 2
Morken, James P
Fall 2024
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 2
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM339807
Research Module 2
Zhang, Xiao-Xiang
Fall 2024
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 2
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339808
Research Module 2
Huang, Jier
Fall 2024
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 2
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM339901
Research Module 3
Liu, Shih-Yuan
Fall 2024
Students may engage in a research project under the supervision of a faculty member.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339902
Research Module 3
Wang, Dunwei
Fall 2024
Students may engage in a research project under the supervision of a faculty member.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339903
Research Module 3
Chatterjee, Abhishek
Fall 2024
Students may engage in a research project under the supervision of a faculty member.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM446101
Biochemistry I
Zhou, Huiqing
Fall 2024
This course is a two-semester introductory-level course in biochemistry. Topics in the first semester concentrate on protein structure and function, bioenergetics, kinetics and mechanisms of enzyme reactions, intermediary metabolism, control of metabolic pathways, and photosynthesis. Topics in the second semester concentrate on the structure of nucleic acids, recombinant DNA technology, mechanisms of gene rearrangements, DNA replication, RNA synthesis and splicing, protein synthesis, control of gene expression, membrane transport, and hormone action. Experimental methods will also be discussed as they relate to course topics.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 TuTh 09:00AM-10:15AM
Satisifies Core Requirement: None
Prerequisites: CHEM2231 and BIOL2000 and CHEM2232 or equivalent.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Both

Comments: None
Status: Offered

CHEM446102
Biochemistry I
McCostis, Alison N
Fall 2024
This course is a two-semester introductory-level course in biochemistry. Topics in the first semester concentrate on protein structure and function, bioenergetics, kinetics and mechanisms of enzyme reactions, intermediary metabolism, control of metabolic pathways, and photosynthesis. Topics in the second semester concentrate on the structure of nucleic acids, recombinant DNA technology, mechanisms of gene rearrangements, DNA replication, RNA synthesis and splicing, protein synthesis, control of gene expression, membrane transport, and hormone action. Experimental methods will also be discussed as they relate to course topics.

Credits: 0
Room and Schedule: Merkert Chemistry Center 130 W 06:00PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231 and BIOL2000 and CHEM2232 or equivalent.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Both
Comments: None
Status: Offered

CHEM446103
Biochemistry I
McCostis, Alison N
Fall 2024

This course is a two-semester introductory-level course in biochemistry. Topics in the first semester concentrate on protein structure and function, bioenergetics, kinetics and mechanisms of enzyme reactions, intermediary metabolism, control of metabolic pathways, and photosynthesis. Topics in the second semester concentrate on the structure of nucleic acids, recombinant DNA technology, mechanisms of gene rearrangements, DNA replication, RNA synthesis and splicing, protein synthesis, control of gene expression, membrane transport, and hormone action. Experimental methods will also be discussed as they relate to course topics.

Credits: 0
Room and Schedule: Merkert Chemistry Center 130 W 07:00PM-07:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231 and BIOL2000 and CHEM2232 or equivalent.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Both
Comments: None
Status: Offered

CHEM446104
Biochemistry I
Niu, Jia
Fall 2024
This course is a two-semester introductory-level course in biochemistry. Topics in the first semester concentrate on protein structure and function, bioenergetics, kinetics and mechanisms of enzyme reactions, intermediary metabolism, control of metabolic pathways, and photosynthesis. Topics in the second semester concentrate on the structure of nucleic acids, recombinant DNA technology, mechanisms of gene rearrangements, DNA replication, RNA synthesis and splicing, protein synthesis, control of gene expression, membrane transport, and hormone action. Experimental methods will also be discussed as they relate to course topics.

Credits: 3
Room and Schedule: 245 Beacon Street Room 102 TuTh 01:30PM-02:45PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231 and BIOL2000 and CHEM2232 or equivalent.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall

Student Level: Both
Comments: None
Status: Offered

CHEM446105
Biochemistry I
Carso, Allison M
Fall 2024
This course is a two-semester introductory-level course in biochemistry. Topics in the first semester concentrate on protein structure and function, bioenergetics, kinetics and mechanisms of enzyme reactions, intermediary metabolism, control of metabolic pathways, and photosynthesis. Topics in the second semester concentrate on the structure of nucleic acids, recombinant DNA technology, mechanisms of gene rearrangements, DNA replication, RNA synthesis and splicing, protein synthesis, control of gene expression, membrane transport, and hormone action. Experimental methods will also be discussed as they relate to course topics.

Credits: 0
Room and Schedule: Carney Hall 303 Tu 06:00PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231 and BIOL2000 and CHEM2232 or equivalent.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Both
Comments: None
Status: Offered

CHEM446106
Biochemistry I
Carso, Allison M
Fall 2024

This course is a two-semester introductory-level course in biochemistry. Topics in the first semester concentrate on protein structure and function, bioenergetics, kinetics and mechanisms of enzyme reactions, intermediary metabolism, control of metabolic pathways, and photosynthesis. Topics in the second semester concentrate on the structure of nucleic acids, recombinant DNA technology, mechanisms of gene rearrangements, DNA replication, RNA synthesis and splicing, protein synthesis, control of gene expression, membrane transport, and hormone action. Experimental methods will also be discussed as they relate to course topics.

Credits: 0
Room and Schedule: Carney Hall 303 Tu 07:00PM-07:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231 and BIOL2000 and CHEM2232 or equivalent.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Both
Comments: None
Status: Offered

CHEM446501
Biochemistry (Chemistry Majors)
Chatterjee, Abhishek
Fall 2024
This course is an accelerated one-semester survey of the basic principles of biochemistry emphasizing a broad understanding of the chemical events in living systems. Although the course is an introduction to biochemistry, prior proficiency in general and organic chemistry is required. Topics will include structure and function of biological molecules, including proteins, enzymes, nucleic acids and biological membranes. Also covered in the course will be bioenergetics, metabolism and photosynthesis. Experimental methods will also be discussed as they relate to course topics. This course fulfills the biochemistry requirement for the Chemistry major.

Credits: 3
Room and Schedule: Campion Hall 302 TuTh 09:00AM-10:15AM
Satisifies Core Requirement: None
Prerequisites: CHEM2232 and CHEM2231. Non-chemistry majors are requested to consult with the instructor before registering for this course.
Corequisites: None

Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM446502
Biochemistry (Chemistry Majors)
Babbitz, Zachary Jacob
Fall 2024
This course is an accelerated one-semester survey of the basic principles of biochemistry emphasizing a broad understanding of the chemical events in living systems. Although the course is an introduction to biochemistry, prior proficiency in general and organic chemistry is required. Topics will include structure and function of biological molecules, including proteins, enzymes, nucleic acids and biological membranes. Also covered in the course will be bioenergetics, metabolism and photosynthesis. Experimental methods will also be discussed as they relate to course topics. This course fulfills the biochemistry requirement for the Chemistry major.

Credits: 0
Room and Schedule: Campion Hall 231 M 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2232 and CHEM2231. Non-chemistry majors are requested to consult with the instructor before registering for this course.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM446503
Biochemistry (Chemistry Majors)
Babbitz, Zachary Jacob
Fall 2024

This course is an accelerated one-semester survey of the basic principles of biochemistry emphasizing a broad understanding of the chemical events in living systems. Although the course is an introduction to biochemistry, prior proficiency in general and organic chemistry is required. Topics will include structure and function of biological molecules, including proteins, enzymes, nucleic acids and biological membranes. Also covered in the course will be bioenergetics, metabolism and photosynthesis. Experimental methods will also be discussed as they relate to course topics. This course fulfills the biochemistry requirement for the Chemistry major.

Credits: 0
Room and Schedule: Campion Hall 231 F 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2232 and CHEM2231. Non-chemistry majors are requested to consult with the instructor before registering for this course.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM447501
Physical Chemistry I
Grimaud, Alexis
Fall 2024
This course deals with the foundations and applications of thermodynamics and reaction kinetics. Topics include: (1) classical thermodynamics, including the Laws of Thermodynamics, Helmholtz and Gibbs energies, chemical potential, and thermodynamic descriptions of phase equilibria and chemical equilibrium; (2) kinetic theory of gases; (3) chemical reaction rate laws and mechanisms.

Credits: 3
Room and Schedule: Merkert Chemistry Center 129 TuTh 10:30AM-11:45AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: MATH2202 and PHYS2100-2101/2200-2201 are pre- or co-requisites.
Cross-listed with: None
Frequency: Every Fall

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM447502
Physical Chemistry I
Karawita Welewattage, Pasindu Viduranga J
Fall 2024
This course deals with the foundations and applications of thermodynamics and reaction kinetics. Topics include: (1) classical thermodynamics, including the Laws of Thermodynamics, Helmholtz and Gibbs energies, chemical potential, and thermodynamic descriptions of phase equilibria and chemical equilibrium; (2) kinetic theory of gases; (3) chemical reaction rate laws and mechanisms.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 M 06:00PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: MATH2202 and PHYS2100-2101/2200-2201 are pre- or co-requisites.
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449101
Introduction to Undergraduate Research I
Bao, Junwei L
Fall 2024
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. Continuation to CHEM4492 requires permission of the adviser.. Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT

Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449102
Introduction to Undergraduate Research I
Zhou, Huiqing
Fall 2024
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. Continuation to CHEM4492 requires permission of the adviser.. Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449103
Introduction to Undergraduate Research I
Liu, Shih-Yuan
Fall 2024

CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. Continuation to CHEM4492 requires permission of the adviser.. Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449104
Introduction to Undergraduate Research I
Morken, James P
Fall 2024
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. Continuation to CHEM4492 requires permission of the adviser.. Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449105
Introduction to Undergraduate Research I
Chatterjee, Abhishek
Fall 2024
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. Continuation to CHEM4492 requires permission of the adviser.. Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449106
Introduction to Undergraduate Research I
Hoveyda, Amir H
Fall 2024
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. Continuation to CHEM4492 requires permission of the adviser.. Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449107
Introduction to Undergraduate Research I
Mohanty, Udayan
Fall 2024
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. Continuation to CHEM4492 requires permission of the adviser.. Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449108
Introduction to Undergraduate Research I
Niu, Jia
Fall 2024
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. Continuation to CHEM4492 requires permission of the adviser.. Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT

Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449110
Introduction to Undergraduate Research I
Snapper, Marc
Fall 2024
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. Continuation to CHEM4492 requires permission of the adviser.. Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449111
Introduction to Undergraduate Research I
Grimaud, Alexis
Fall 2024

CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. Continuation to CHEM4492 requires permission of the adviser.. Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449113
Introduction to Undergraduate Research I
Waegele, Matthias
Fall 2024
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. Continuation to CHEM4492 requires permission of the adviser.. Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449116
Introduction to Undergraduate Research I
Gao, Jianmin
Fall 2024
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. Continuation to CHEM4492 requires permission of the adviser.. Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449117
Introduction to Undergraduate Research I
Wang, Dunwei
Fall 2024
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. Continuation to CHEM4492 requires permission of the adviser.. Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449118
Introduction to Undergraduate Research I
Weerapana, Eranthie
Fall 2024
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. Continuation to CHEM4492 requires permission of the adviser.. Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449119
Introduction to Undergraduate Research I
Zhang, Xiao-Xiang
Fall 2024
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. Continuation to CHEM4492 requires permission of the adviser.. Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT

Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM553101
Modern Methods in Organic Synthesis I
Morken, James P
Fall 2024
Survey and analysis of reactions employed in the synthesis of medicinally significant compounds. An in-depth understanding of the mechanistic details for each transformation will be emphasized. Topics will relate fundamental structural and electronic properties to issues of chemical reactivity. An emphasis will be placed on carbon-carbon bond and ring forming reactions.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2232 or equivalent
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Both
Comments: None
Status: Offered

CHEM553701
Mechanistic Organic Chemistry
Liu, Shih-Yuan
Fall 2024

This course will explore factors influencing organic reaction mechanisms and methods for their determination. A partial list of the topics to be covered includes chemical bonding and consequences for structure and reactivity; steric, electronic, and stereoelectronic effects; conformational analysis; thermodynamic and kinetic principles; applications of molecular orbital theory; and reactive intermediates.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 TuTh 10:30AM-11:45AM
Satisifies Core Requirement: None
Prerequisites: CHEM2232 or equivalent
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Both
Comments: None
Status: Offered

CHEM553901
Principles and Applications of NMR Spectroscopy
Jayasundera, Thusitha
Fall 2024
Nuclear Magnetic Resonance (NMR) is an indispensable tool for all organic chemists. This course will introduce the theory of NMR spectroscopy with concurrent experiments that illustrate these concepts firsthand, so that the subject matter is easier to absorb. Applications of NMR in biochemistry will also be discussed, with a guided, hands-on project that exemplifies how NMR is utilized to study large macromolecules (such as proteins and nucleic acids), which will provide valuable practical experience to students. Material covered in this class will prepare you well for graduate studies, or a chemistry/biochemistry-related career in industry.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 Tu 06:00PM-08:30PM
Satisifies Core Requirement: None
Prerequisites: Organic Chemistry is recommended as a prerequisite.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Both

Comments: None
Status: Offered

CHEM556001
Principles of Chemical Biology
Gao, Jianmin
Fall 2024
An introduction to the chemistry of biological macromolecules, including proteins, nucleic acids, and carbohydrates. Students will learn the structure and nomenclature of the monomer building blocks as well as the macromolecules. Chemical principles that define secondary and tertiary biomolecular structure as well as state-of-the-art chemical (or chemical-biological) synthetic procedures will be presented. Examples of specific types of binding interactions, catalysis, or recognition processes as viewed from a chemical perspective will be discussed.

Credits: 3
Room and Schedule: Campion Hall 204 TuTh 09:00AM-10:15AM
Satisifies Core Requirement: None
Prerequisites: CHEM2232 or equivalent.
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Both
Comments: None
Status: Offered

CHEM557901
Thermodynamics and Statistical Mechanics
Mohanty, Udayan
Fall 2024
This course deals with the foundations and applications of thermodynamics and equilibrium statistical mechanics. Topics include thermodynamic laws, microcanonical, canonical, and grand ensembles and its applications to a variety of problems in physical and biophysical chemistry. Advanced topics such as phase transition, Langevin dynamics and time-correlation functions will be covered.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 MWF 10:00AM-10:50AM

Satisifies Core Requirement: None
Prerequisites: CHEM4475 and CHEM4476 or courses equivalent to undergraduate courses in thermodynamics and quantum chemistry
Corequisites: None
Cross-listed with: None
Frequency: Periodically
Student Level: Both
Comments: None
Status: Offered

CHEM559101
Undergraduate Chemical Research I
Bao, Junwei L
Fall 2024
Course is intended for seniors. Continuation to CHEM5592 requires permission of the adviser.. The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559102
Undergraduate Chemical Research I
Morken, James P
Fall 2024

Course is intended for seniors. Continuation to CHEM5592 requires permission of the adviser.. The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559103
Undergraduate Chemical Research I
Liu, Shih-Yuan
Fall 2024
Course is intended for seniors. Continuation to CHEM5592 requires permission of the adviser.. The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559104

Undergraduate Chemical Research I
Hoveyda, Amir H
Fall 2024
Course is intended for seniors. Continuation to CHEM5592 requires permission of the adviser.. The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559105
Undergraduate Chemical Research I
Grimaud, Alexis
Fall 2024
Course is intended for seniors. Continuation to CHEM5592 requires permission of the adviser.. The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559106
Undergraduate Chemical Research I
Huang, Jier
Fall 2024
Course is intended for seniors. Continuation to CHEM5592 requires permission of the adviser.. The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559107
Undergraduate Chemical Research I
O'Connell, Lynne A
Fall 2024
Course is intended for seniors. Continuation to CHEM5592 requires permission of the adviser.. The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM559108
Undergraduate Chemical Research I
Mohanty, Udayan
Fall 2024
Course is intended for seniors. Continuation to CHEM5592 requires permission of the adviser.. The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559109
Undergraduate Chemical Research I
Waegele, Matthias
Fall 2024
Course is intended for seniors. Continuation to CHEM5592 requires permission of the adviser.. The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None

Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559110
Undergraduate Chemical Research I
Snapper, Marc
Fall 2024
Course is intended for seniors. Continuation to CHEM5592 requires permission of the adviser.. The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559114
Undergraduate Chemical Research I
Wang, Dunwei
Fall 2024
Course is intended for seniors. Continuation to CHEM5592 requires permission of the adviser.. The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT

Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559116
Undergraduate Chemical Research I
Metz, Kenneth R, PHD
Fall 2024
Course is intended for seniors. Continuation to CHEM5592 requires permission of the adviser.. The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559117
Undergraduate Chemical Research I
Zhang, Xiao-Xiang
Fall 2024

Course is intended for seniors. Continuation to CHEM5592 requires permission of the adviser.. The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559301
Undergraduate Biochemical Research I
Zhou, Huiqing
Fall 2024
Course is intended for seniors. Continuation to CHEM5594 requires permission of the adviser.. Independent research in biochemistry to be carried out under the supervision of a faculty member. A written report and an oral presentation are required at the end of the second semester.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559302

Undergraduate Biochemical Research I
Weerapana, Eranthie
Fall 2024
Course is intended for seniors. Continuation to CHEM5594 requires permission of the adviser.. Independent research in biochemistry to be carried out under the supervision of a faculty member. A written report and an oral presentation are required at the end of the second semester.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559303
Undergraduate Biochemical Research I
Niu, Jia
Fall 2024
Course is intended for seniors. Continuation to CHEM5594 requires permission of the adviser.. Independent research in biochemistry to be carried out under the supervision of a faculty member. A written report and an oral presentation are required at the end of the second semester.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559305
Undergraduate Biochemical Research I
Chatterjee, Abhishek
Fall 2024
Course is intended for seniors. Continuation to CHEM5594 requires permission of the adviser.. Independent research in biochemistry to be carried out under the supervision of a faculty member. A written report and an oral presentation are required at the end of the second semester.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559306
Undergraduate Biochemical Research I
Gao, Jianmin
Fall 2024
Course is intended for seniors. Continuation to CHEM5594 requires permission of the adviser.. Independent research in biochemistry to be carried out under the supervision of a faculty member. A written report and an oral presentation are required at the end of the second semester.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM559504
Advanced Research in Chemistry I
Morken, James P
Fall 2024
Seniors only Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559505
Advanced Research in Chemistry I
Hoveyda, Amir H
Fall 2024
Seniors only Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None

Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559507
Advanced Research in Chemistry I
Liu, Shih-Yuan
Fall 2024
Seniors only Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559508
Advanced Research in Chemistry I
Mohanty, Udayan
Fall 2024

Seniors only Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559510
Advanced Research in Chemistry I
Snapper, Marc
Fall 2024
Seniors only Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559511
Advanced Research in Chemistry I
Wang, Dunwei
Fall 2024
Seniors only Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559701
Advanced Research in Biochemistry I
Chatterjee, Abhishek
Fall 2024
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559702
Advanced Research in Biochemistry I
Gao, Jianmin
Fall 2024
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559703
Advanced Research in Biochemistry I
Niu, Jia
Fall 2024
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT

Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559704
Advanced Research in Biochemistry I
Zhou, Huiqing
Fall 2024
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559705
Advanced Research in Biochemistry I
Weerapana, Eranthie
Fall 2024

Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM660101
Senior Thesis Research in Chemistry I
Morken, James P
Fall 2024
An independent research project performed under the supervision of a faculty member. A written thesis is required to culminate the project.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM660102
Senior Thesis Research in Chemistry I

Hoveyda, Amir H
Fall 2024
An independent research project performed under the supervision of a faculty member. A written thesis is required to culminate the project.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM660103
Senior Thesis Research in Chemistry I
Mohanty, Udayan
Fall 2024
An independent research project performed under the supervision of a faculty member. A written thesis is required to culminate the project.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM660104
Senior Thesis Research in Chemistry I
Zhang, Xiao-Xiang

Fall 2024

An independent research project performed under the supervision of a faculty member. A written thesis is required to culminate the project.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM660301
Senior Thesis Research in Biochemistry I
Niu, Jia
Fall 2024

An independent research project performed under the supervision of a faculty member. A written thesis is required to culminate the project.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM660302
Senior Thesis Research in Biochemistry I
Gao, Jianmin
Fall 2024

An independent research project performed under the supervision of a faculty member. A written thesis is required to culminate the project.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM660303
Senior Thesis Research in Biochemistry I
Weerapana, Eranthie
Fall 2024
An independent research project performed under the supervision of a faculty member. A written thesis is required to culminate the project.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM667601
Physical Chemistry: Principles and Applications
Bao, Junwei L
Fall 2024

This course intends to build a solid and rigorous foundation for chemistry graduate students to understand chemistry and materials at the microscopic level, and study the physical nature of bonding and chemical reaction dynamics quantitatively. We focus on fundamental principles of quantum mechanics and their connections to chemistry/chemical physics. Topics covered in this course include principles of quantum mechanics, the connections between classical and quantum dynamics, exactly solvable systems, variational principle, introductory perturbation theory, and Hartree-Fock theory. We will also cover some necessary mathematical tools that are tremendously useful in understanding modern physical chemistry.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 MWF 09:00AM-09:50AM
Satisifies Core Requirement: None
Prerequisites: This course is theory/math-intensive and involves active learning. We strongly recommend students who are well prepared in introductory quantum mechanics (one-semester undergraduate-level quantum mechanics or equivalent) and in math (multivariable c...
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Both
Comments: None
Status: Offered

CHEM779901
Readings and Research I
Wang, Dunwei
Fall 2024
A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM779902
Readings and Research I
Hoveyda, Amir H
Fall 2024
A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM779903
Readings and Research I
Weerapana, Eranthie
Fall 2024
A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM779904
Readings and Research I
Snapper, Marc

Fall 2024

A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM779905
Readings and Research I
Niu, Jia
Fall 2024

A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM779906
Readings and Research I
Chatterjee, Abhishek
Fall 2024

A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM779909
Readings and Research I
Gao, Jianmin
Fall 2024
A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM880001
Readings and Research II
Hoveyda, Amir H
Fall 2024
A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT

Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM880005
Readings and Research II
Snapper, Marc
Fall 2024
A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM880501
Departmental Seminar I
Dept, Chem
Fall 2024
This is a series of research seminars by leading scientists, both from within the department and from other institutions, that are presented on a regular (usually weekly) basis.

Credits: 1
Room and Schedule: Merkert Chemistry Center 127 Th 03:00PM-06:00PM
Satisifies Core Requirement: None
Prerequisites: None

Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

CHEM880502
Departmental Seminar I
Mahoney, Dale L
Fall 2024
This is a series of research seminars by leading scientists, both from within the department and from other institutions, that are presented on a regular (usually weekly) basis.

Credits: 1
Room and Schedule: Merkert Chemistry Center 127 F 03:00PM-06:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

CHEM880503
Departmental Seminar I
Dept, Chem
Fall 2024
This is a series of research seminars by leading scientists, both from within the department and from other institutions, that are presented on a regular (usually weekly) basis.

Credits: 1
Room and Schedule: Merkert Chemistry Center 129 F 03:00PM-06:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None

Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

CHEM882101
Inorganic Chemistry Seminar I
Dept, Chem
Fall 2024
This is a series of research seminars by leading scientists, both from within the department and from other institutions, that are presented on a regular (usually weekly) basis.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 M 03:00PM-06:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

CHEM883101
Organic Chemistry Seminar I
Dept, Chem
Fall 2024
This is a series of research seminars by leading scientists, both from within the department and from other institutions, that are presented on a regular (usually weekly) basis.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 Tu 03:00PM-06:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None

Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

CHEM886101
Biochemistry Seminar I
Dept, Chem
Fall 2024
This is a series of research seminars by leading scientists, both from within the department and from other institutions, that are presented on a regular (usually weekly) basis.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 W 03:00PM-06:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

CHEM887101
Physical Chemistry Seminar I
Dept, Chem
Fall 2024
This is a series of research seminars by leading scientists, both from within the department and from other institutions, that are presented on a regular (usually weekly) basis.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 F 03:00PM-06:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall

Student Level: Graduate
Comments: None
Status: Offered

CHEM887102
Physical Chemistry Seminar I
Dept, Chem
Fall 2024
This is a series of research seminars by leading scientists, both from within the department and from other institutions, that are presented on a regular (usually weekly) basis.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 Th 03:00PM-06:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

CHEM888801
Interim Study
Mahoney, Dale L
Fall 2024
TBD

Credits: 0
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate

Comments: None
Status: Offered

CHEM999901
Doctoral Continuation
Mahoney, Dale L
Fall 2024
All students who have been admitted to candidacy for the Ph.D. degree are required to register and pay the fee for doctoral continuation during each semester of their candidacy. Doctoral Continuation requires a commitment of at least 20 hours per week working on the dissertation.

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

Chemistry Courses: Spring 2025

CHEM110601
Chemistry and Society II
Keen, Clarissa
Spring 2025
For non-science majors or for those who do not require a lab science course.. This is a two-semester sequence. The second semester focuses on the basic principles of organic chemistry and topics covered include the chemistry of life, nutrition, medicine, and agriculture. The goal of the course is to develop a knowledge base from which one can make intelligent decisions about local global environmental issues as well as formulate solutions to the ever-increasingly complex problems of today's technological society.

Credits: 3
Room and Schedule: Fulton Hall 511 (Auditorium) TuTh 03:00PM-04:15PM

Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1105 OR a high school chemistry course
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111001
General Chemistry II
Hartmann, Nathaniel J
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 3
Room and Schedule: Devlin Hall 8 MWF 09:00AM-09:50AM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111002
General Chemistry II
Hartmann, Nathaniel J
Spring 2025

This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 Tu 04:00PM-04:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111003
General Chemistry II
Hartmann, Nathaniel J
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 M 01:00PM-01:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111004
General Chemistry II
Hartmann, Nathaniel J
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 W 05:00PM-05:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111005
General Chemistry II
Hartmann, Nathaniel J
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 M 12:00 Noon-12:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111006
General Chemistry II
Hartmann, Nathaniel J
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 W 11:00AM-11:50AM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111007
General Chemistry II
Hartmann, Nathaniel J
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 Tu 03:00PM-03:50PM

Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111008
General Chemistry II
Bao, Junwei L
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 MWF 01:00PM-01:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111009
General Chemistry II
Bao, Junwei L
Spring 2025

This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 W 03:00PM-03:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111010
General Chemistry II
Bao, Junwei L
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 F 12:00 Noon-12:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111011
General Chemistry II
Bao, Junwei L
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 M 11:00AM-11:50AM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111012
General Chemistry II
Bao, Junwei L
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 130 M 09:00AM-09:50AM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111013
General Chemistry II
Bao, Junwei L
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 Tu 05:00PM-05:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111014
General Chemistry II
Bao, Junwei L
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 W 02:00PM-02:50PM

Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111015
General Chemistry II
Keen, Clarissa
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 TuTh 12:00 Noon-01:15PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111016
General Chemistry II
Keen, Clarissa
Spring 2025

This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 M 04:00PM-04:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111017
General Chemistry II
Keen, Clarissa
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 M 02:00PM-02:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111018
General Chemistry II
Keen, Clarissa
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 W 04:00PM-04:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111019
General Chemistry II
Keen, Clarissa
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 F 01:00PM-01:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111020
General Chemistry II
Keen, Clarissa
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Higgins Hall 280 W 01:00PM-01:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111021
General Chemistry II
Keen, Clarissa
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 F 10:00AM-10:50AM

Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111022
General Chemistry II
Hartmann, Nathaniel J
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 3
Room and Schedule: Devlin Hall 8 MWF 09:00AM-09:50AM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111023
General Chemistry II
Young, Allison P
Spring 2025

This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111024
General Chemistry II
Young, Allison P
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 M 03:00PM-03:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111025
General Chemistry II
Young, Allison P
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 Th 03:00PM-03:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111026
General Chemistry II
Young, Allison P
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 W 10:00AM-10:50AM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111027
General Chemistry II
Young, Allison P
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 W 01:00PM-01:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111028
General Chemistry II
Young, Allison P
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 F 11:00AM-11:50AM

Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111029
General Chemistry II
Young, Allison P
Spring 2025
This course is intended for students whose major interest is science or medicine. It offers a rigorous introduction to the principles of chemistry with special emphasis on quantitative relationships, chemical equilibrium, and the structures of atoms, molecules, and crystals. The properties of the more common elements and compounds are considered against a background of these principles and the periodic table.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 F 02:00PM-02:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1109
Corequisites: CHEM1112
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111201
General Chemistry Laboratory II
Wang, Dunwei
Spring 2025

Laboratory required of all students enrolled in CHEM1110. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 Tu 09:00AM-11:50AM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1111
Corequisites: CHEM1110
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111202
General Chemistry Laboratory II
Waegele, Matthias
Spring 2025
Laboratory required of all students enrolled in CHEM1110. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 Th 09:00AM-11:50AM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1111
Corequisites: CHEM1110
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111203

General Chemistry Laboratory II
Grimaud, Alexis
Spring 2025
Laboratory required of all students enrolled in CHEM1110. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 113 F 10:00AM-12:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1111
Corequisites: CHEM1110
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111204
General Chemistry Laboratory II
Chatterjee, Abhishek
Spring 2025
Laboratory required of all students enrolled in CHEM1110. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 M 02:00PM-04:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1111
Corequisites: CHEM1110
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111205
General Chemistry Laboratory II
Fox, Daniel J
Spring 2025
Laboratory required of all students enrolled in CHEM1110. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 Tu 01:30PM-04:20PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1111
Corequisites: CHEM1110
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111206
General Chemistry Laboratory II
Mohanty, Udayan
Spring 2025
Laboratory required of all students enrolled in CHEM1110. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 W 02:00PM-04:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1111
Corequisites: CHEM1110
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM111207
General Chemistry Laboratory II
Bao, Junwei L
Spring 2025
Laboratory required of all students enrolled in CHEM1110. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 Th 01:30PM-04:20PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1111
Corequisites: CHEM1110
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111208
General Chemistry Laboratory II
Zhou, Huiqing
Spring 2025
Laboratory required of all students enrolled in CHEM1110. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 F 02:00PM-04:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1111
Corequisites: CHEM1110

Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111209
General Chemistry Laboratory II
Young, Allison P
Spring 2025
Laboratory required of all students enrolled in CHEM1110. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 M 05:30PM-08:20PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1111
Corequisites: CHEM1110
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111210
General Chemistry Laboratory II
Parr, Ian B
Spring 2025
Laboratory required of all students enrolled in CHEM1110. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 Tu 05:30PM-08:20PM

Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1111
Corequisites: CHEM1110
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111211
General Chemistry Laboratory II
Jayasundera, Thusitha
Spring 2025
Laboratory required of all students enrolled in CHEM1110. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 W 05:30PM-08:20PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1111
Corequisites: CHEM1110
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111212
General Chemistry Laboratory II
Parr, Ian B
Spring 2025

Laboratory required of all students enrolled in CHEM1110. One three-hour period per week. Experiments reflect and apply the principles learned in the lecture course. Computers are used to both acquire and analyze data. The semester concludes with a group project where students are required to design their own experiments to solve a problem.

Credits: 1
Room and Schedule: Merkert Chemistry Center 116 Th 05:30PM-08:20PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1111
Corequisites: CHEM1110
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111501
Fundamentals of Chemistry
Fox, Daniel J
Spring 2025
This course is designed to prepare students for the first semester of General Chemistry. The course will consist of two major parts, the first of which will focus on the mathematical skills and problem solving that are fundamental to the deeper understanding of chemical concepts. The second part of the course will focus on the application of problem-solving techniques with basic chemical concepts such as atomic structure and isotopes, balancing chemical equations, and stoichiometry. Once they have mastered these proficiencies, students will have a strong foundation in the skills necessary to succeed in higher level chemistry courses. Although the course does meet the Natural Science Core Requirement for MCAS, students will only be granted permission to take the course based on their desire to continue on with the Chemistry curriculum.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 MWF 01:00PM-01:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: Permission of Instructor
Corequisites: None
Cross-listed with: None
Frequency: Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111801
Honors Modern Chemistry II
Liu, Shih-Yuan
Spring 2025
This is the second part of a one-year course that serves as the Honors alternative to the two-semester General Chemistry CHEM1109-1110. This course will build upon the chemical fundamentals that were covered in the first semester to introduce organic chemistry as well as its physical basis. Topics to be covered include the structure and reactivity of organic compounds.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 TuTh 09:00AM-10:15AM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1117
Corequisites: CHEM1120
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111802
Honors Modern Chemistry II
Dept, Chem
Spring 2025
This is the second part of a one-year course that serves as the Honors alternative to the two-semester General Chemistry CHEM1109-1110. This course will build upon the chemical fundamentals that were covered in the first semester to introduce organic chemistry as well as its physical basis. Topics to be covered include the structure and reactivity of organic compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 Tu 06:00PM-06:50PM

Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1117
Corequisites: CHEM1120
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM111803
Honors Modern Chemistry II
Dept, Chem
Spring 2025
This is the second part of a one-year course that serves as the Honors alternative to the two-semester General Chemistry CHEM1109-1110. This course will build upon the chemical fundamentals that were covered in the first semester to introduce organic chemistry as well as its physical basis. Topics to be covered include the structure and reactivity of organic compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 W 06:00PM-06:50PM
Satisifies Core Requirement: Natural Science
Prerequisites: CHEM1117
Corequisites: CHEM1120
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM112001
Honors Modern Chemistry Laboratory II
Young, Allison P
Spring 2025

Laboratory required for all students enrolled in CHEM1118. This laboratory course stresses discovery-based experiments. It uses state-of-the-art instrumentation to illustrate the principles discussed in CHEM1117-1118 and introduces students to techniques used in modern chemical research. One three-hour period per week.

Credits: 1
Room and Schedule: Merkert Chemistry Center 120 M 01:00PM-04:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1118
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM112002
Honors Modern Chemistry Laboratory II
Young, Allison P
Spring 2025
Laboratory required for all students enrolled in CHEM1118. This laboratory course stresses discovery-based experiments. It uses state-of-the-art instrumentation to illustrate the principles discussed in CHEM1117-1118 and introduces students to techniques used in modern chemical research. One three-hour period per week.

Credits: 1
Room and Schedule: Merkert Chemistry Center 120 M 05:30PM-08:30PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1118
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM112801

Gateway: General Chemistry Discussion II
Hartmann, Nathaniel J
Spring 2025
Required of all students in Gateway General Chemistry. Discussion will offer a comprehensive review of the material presented in lecture, with a focus on the key mathematical and chemical concepts needed for problem-solving, in a small group setting.

Credits: 1
Room and Schedule: Merkert Chemistry Center 129 Th 04:30PM-05:20PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1110
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM112802
Gateway: General Chemistry Discussion II
Hartmann, Nathaniel J
Spring 2025
Required of all students in Gateway General Chemistry. Discussion will offer a comprehensive review of the material presented in lecture, with a focus on the key mathematical and chemical concepts needed for problem-solving, in a small group setting.

Credits: 1
Room and Schedule: Merkert Chemistry Center 129 Th 05:30PM-06:20PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM1110
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223201
Organic Chemistry II
Deak, Holly L
Spring 2025
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223202
Organic Chemistry II
Deak, Holly L
Spring 2025
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 W 03:00PM-03:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM223203
Organic Chemistry II
Deak, Holly L
Spring 2025
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Campion Hall 300 F 01:00PM-01:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223204
Organic Chemistry II
Deak, Holly L
Spring 2025
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 130 F 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None

Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223205
Organic Chemistry II
Deak, Holly L
Spring 2025
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 W 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223206
Organic Chemistry II
Deak, Holly L
Spring 2025
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 Tu 05:00PM-05:50PM

Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223207
Organic Chemistry II
Morken, James P
Spring 2025
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 MWF 09:00AM-09:50AM
Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223208
Organic Chemistry II
Morken, James P
Spring 2025

An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 M 03:00PM-03:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223209
Organic Chemistry II
Morken, James P
Spring 2025
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 W 04:00PM-04:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223210

Organic Chemistry II
Morken, James P
Spring 2025
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 W 05:00PM-05:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223211
Organic Chemistry II
Morken, James P
Spring 2025
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 130 M 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223212
Organic Chemistry II
Deak, Holly L
Spring 2025
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223213
Organic Chemistry II
Fox, Daniel J
Spring 2025
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 MWF 11:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM223214
Organic Chemistry II
Fox, Daniel J
Spring 2025
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 M 04:00PM-04:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223215
Organic Chemistry II
Fox, Daniel J
Spring 2025
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 M 05:00PM-05:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None

Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223216
Organic Chemistry II
Fox, Daniel J
Spring 2025
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Mcguinn Hall 29 Th 03:00PM-03:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223217
Organic Chemistry II
Fox, Daniel J
Spring 2025
An introduction to the chemistry, properties, and uses of organic compounds. The correlation of structure with properties and reaction mechanisms and the modern approach to structural and synthetic problems are stressed throughout. In the laboratory, the aim is acquisition of sound experimental techniques through the synthesis of selected compounds.

Credits: 0
Room and Schedule: Mcguinn Hall 29 Th 04:00PM-04:50PM

Satisifies Core Requirement: None
Prerequisites: CHEM2231
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223401
Organic Chemistry Laboratory II
Snapper, Marc
Spring 2025
Laboratory required of all students enrolled in CHEM2232. One four-hour period per week. Having acquired the necessary lab skills in Organic Chem Lab I, students now can carry out reaction chemistry in the laboratory that is being taught in the lecture course.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 M 12:00 Noon-03:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2233
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223402
Organic Chemistry Laboratory II
Liu, Shih-Yuan
Spring 2025

Laboratory required of all students enrolled in CHEM2232. One four-hour period per week. Having acquired the necessary lab skills in Organic Chem Lab I, students now can carry out reaction chemistry in the laboratory that is being taught in the lecture course.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 Tu 12:00 Noon-03:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2233
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223403
Organic Chemistry Laboratory II
Niu, Jia
Spring 2025
Laboratory required of all students enrolled in CHEM2232. One four-hour period per week. Having acquired the necessary lab skills in Organic Chem Lab I, students now can carry out reaction chemistry in the laboratory that is being taught in the lecture course.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 W 12:00 Noon-03:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2233
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223404
Organic Chemistry Laboratory II
Zhang, Xiao-Xiang

Spring 2025

Laboratory required of all students enrolled in CHEM2232. One four-hour period per week. Having acquired the necessary lab skills in Organic Chem Lab I, students now can carry out reaction chemistry in the laboratory that is being taught in the lecture course.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 Th 12:00 Noon-03:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2233
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223405
Organic Chemistry Laboratory II
Morken, James P
Spring 2025

Laboratory required of all students enrolled in CHEM2232. One four-hour period per week. Having acquired the necessary lab skills in Organic Chem Lab I, students now can carry out reaction chemistry in the laboratory that is being taught in the lecture course.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 F 01:00PM-04:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2233
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223406
Organic Chemistry Laboratory II

Young, Allison P

Spring 2025

Laboratory required of all students enrolled in CHEM2232. One four-hour period per week. Having acquired the necessary lab skills in Organic Chem Lab I, students now can carry out reaction chemistry in the laboratory that is being taught in the lecture course.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 M 05:00PM-08:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2233
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223407

Organic Chemistry Laboratory II

Parr, Ian B

Spring 2025

Laboratory required of all students enrolled in CHEM2232. One four-hour period per week. Having acquired the necessary lab skills in Organic Chem Lab I, students now can carry out reaction chemistry in the laboratory that is being taught in the lecture course.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 Tu 05:00PM-08:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2233
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223408

Organic Chemistry Laboratory II
Jayasundera, Thusitha
Spring 2025
Laboratory required of all students enrolled in CHEM2232. One four-hour period per week. Having acquired the necessary lab skills in Organic Chem Lab I, students now can carry out reaction chemistry in the laboratory that is being taught in the lecture course.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 W 05:00PM-08:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2233
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223409
Organic Chemistry Laboratory II
Parr, Ian B
Spring 2025
Laboratory required of all students enrolled in CHEM2232. One four-hour period per week. Having acquired the necessary lab skills in Organic Chem Lab I, students now can carry out reaction chemistry in the laboratory that is being taught in the lecture course.

Credits: 1
Room and Schedule: Merkert Chemistry Center 18 Th 05:00PM-08:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2233
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM223801
Gateway: Organic Chemistry Discussion II
Deak, Holly L
Spring 2025
Required of all students in Gateway Organic Chemistry. Discussion will offer a fairly comprehensive review of the material presented in lecture, with a focus on the key concepts needed for problem-solving in a small group setting.

Credits: 1
Room and Schedule: Merkert Chemistry Center 130 W 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM224201
Honors Organic Chemistry II
Weerapana, Eranthie
Spring 2025
This course is a continuation of the CHEM1117-1118 honors sequence and will concentrate on the structure, bonding, and reactivity of organic compounds. Particular emphasis will be placed on stereochemistry, conformational analysis, reaction mechanisms, principles of organic synthesis, and modern spectroscopic methods.

Credits: 3
Room and Schedule: Merkert Chemistry Center 129 TuTh 09:00AM-10:15AM
Satisifies Core Requirement: None
Prerequisites: CHEM2241
Corequisites: CHEM2234
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM224202
Honors Organic Chemistry II
Dept, Chem
Spring 2025
This course is a continuation of the CHEM1117-1118 honors sequence and will concentrate on the structure, bonding, and reactivity of organic compounds. Particular emphasis will be placed on stereochemistry, conformational analysis, reaction mechanisms, principles of organic synthesis, and modern spectroscopic methods.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 W 06:00PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2241
Corequisites: CHEM2234
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM224203
Honors Organic Chemistry II
Dept, Chem
Spring 2025
This course is a continuation of the CHEM1117-1118 honors sequence and will concentrate on the structure, bonding, and reactivity of organic compounds. Particular emphasis will be placed on stereochemistry, conformational analysis, reaction mechanisms, principles of organic synthesis, and modern spectroscopic methods.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 Tu 06:00PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2241
Corequisites: CHEM2234
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM332201
Introduction to Inorganic Chemistry
Hartmann, Nathaniel J
Spring 2025
Though not required, one year of Organic Chemistry (CHEM2231-2232 or CHEM1118 and CHEM2241) is recommended as a prerequisite for this course.. This course offers an introduction to inorganic chemistry. Topics include: applications of group theory to describe structure and bonding, coordination chemistry, organometallic chemistry, bioinorganic chemistry, crystal packing, and semiconducting and superconducting materials.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 MWF 11:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM3324
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM332202
Introduction to Inorganic Chemistry
Dept, Chem
Spring 2025
Though not required, one year of Organic Chemistry (CHEM2231-2232 or CHEM1118 and CHEM2241) is recommended as a prerequisite for this course.. This course offers an introduction to inorganic chemistry. Topics include: applications of group theory to describe structure and bonding, coordination chemistry, organometallic chemistry, bioinorganic chemistry, crystal packing, and semiconducting and superconducting materials.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 M 05:00PM-05:50PM
Satisifies Core Requirement: None

Prerequisites: None
Corequisites: CHEM3324
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM332203
Introduction to Inorganic Chemistry
Dept, Chem
Spring 2025
Though not required, one year of Organic Chemistry (CHEM2231-2232 or CHEM1118 and CHEM2241) is recommended as a prerequisite for this course.. This course offers an introduction to inorganic chemistry. Topics include: applications of group theory to describe structure and bonding, coordination chemistry, organometallic chemistry, bioinorganic chemistry, crystal packing, and semiconducting and superconducting materials.

Credits: 0
Room and Schedule: Higgins Hall 265 W 05:00PM-05:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM3324
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM332401
Inorganic Chemistry Laboratory
Keen, Clarissa
Spring 2025
Laboratory required of all students enrolled in CHEM3322. One four-hour period per week.

Credits: 1
Room and Schedule: Merkert Chemistry Center 120 W 12:00 Noon-04:00PM

Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM3322
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM332402
Inorganic Chemistry Laboratory
Keen, Clarissa
Spring 2025
Laboratory required of all students enrolled in CHEM3322. One four-hour period per week.

Credits: 1
Room and Schedule: Merkert Chemistry Center 120 Th 12:00 Noon-04:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: CHEM3322
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339701
Research Module 1
Waegele, Matthias
Spring 2025
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department

Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339702
Research Module 1
Weerapana, Eranthie
Spring 2025
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339703
Research Module 1
Liu, Shih-Yuan
Spring 2025
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None

Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339704
Research Module 1
Chatterjee, Abhishek
Spring 2025
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339705
Research Module 1
Zhang, Xiao-Xiang
Spring 2025
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None

Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339706
Research Module 1
Niu, Jia
Spring 2025
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339707
Research Module 1
Wang, Dunwei
Spring 2025
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339708
Research Module 1
Morken, James P
Spring 2025
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339709
Research Module 1
Bao, Junwei L
Spring 2025
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM339801
Research Module 2
Weerapana, Eranthie
Spring 2025
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 2
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339802
Research Module 2
Niu, Jia
Spring 2025
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 2
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM339803
Research Module 2
Liu, Shih-Yuan
Spring 2025
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 2
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339804
Research Module 2
Chatterjee, Abhishek
Spring 2025
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 2
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM339805
Research Module 2
Grimaud, Alexis
Spring 2025
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 2
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM339806
Research Module 2
Morken, James P
Spring 2025
Students may engage in a research project that is limited in scope under the supervision of a faculty member.

Credits: 2
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM339901
Research Module 3
Liu, Shih-Yuan
Spring 2025
Students may engage in a research project under the supervision of a faculty member.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM446203
Biochemistry II
Gao, Jianmin
Spring 2025
This course is a two-semester introductory-level course in biochemistry. Topics in the first semester concentrate on protein structure and function, bioenergetics, kinetics and mechanisms of enzyme reactions, intermediary metabolism, control of metabolic pathways, and photosynthesis. Topics in the second semester concentrate on the structure of nucleic acids, recombinant DNA technology, mechanisms of gene rearrangements, DNA replication, RNA synthesis and splicing, protein synthesis, control of gene expression, membrane transport, and hormone action. Experimental methods will also be discussed as they relate to course topics.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 TuTh 09:00AM-10:15AM
Satisifies Core Requirement: None
Prerequisites: CHEM4461 and CHEM2232 or equivalent.
Corequisites: None

Cross-listed with: None
Frequency: Every Spring
Student Level: Both
Comments: None
Status: Offered

CHEM446204
Biochemistry II
Dept, Chem
Spring 2025
This course is a two-semester introductory-level course in biochemistry. Topics in the first semester concentrate on protein structure and function, bioenergetics, kinetics and mechanisms of enzyme reactions, intermediary metabolism, control of metabolic pathways, and photosynthesis. Topics in the second semester concentrate on the structure of nucleic acids, recombinant DNA technology, mechanisms of gene rearrangements, DNA replication, RNA synthesis and splicing, protein synthesis, control of gene expression, membrane transport, and hormone action. Experimental methods will also be discussed as they relate to course topics.

Credits: 0
Room and Schedule: Merkert Chemistry Center 130 W 06:00PM-06:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM4461 and CHEM2232 or equivalent.
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Both
Comments: None
Status: Offered

CHEM446205
Biochemistry II
Dept, Chem
Spring 2025

This course is a two-semester introductory-level course in biochemistry. Topics in the first semester concentrate on protein structure and function, bioenergetics, kinetics and mechanisms of enzyme reactions, intermediary metabolism, control of metabolic pathways, and photosynthesis. Topics in the second semester concentrate on the structure of nucleic acids, recombinant DNA technology, mechanisms of gene rearrangements, DNA replication, RNA synthesis and splicing, protein synthesis, control of gene expression, membrane transport, and hormone action. Experimental methods will also be discussed as they relate to course topics.

Credits: 0
Room and Schedule: Merkert Chemistry Center 130 W 07:00PM-07:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM4461 and CHEM2232 or equivalent.
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Both
Comments: None
Status: Offered

CHEM447301
Physical Chemistry (Biochemistry Majors)
Waegele, Matthias
Spring 2025
This course is an introduction to physical chemistry. The following topics are covered: thermodynamics, transport properties, chemical kinetics, quantum mechanics, and spectroscopy. Applications to biochemical systems are emphasized.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: CHEM2232 and MATH1101
Corequisites: PHYS2100-2101 (or equivalent) are pre- or co-requisites
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM447601
Physical Chemistry II
Mohanty, Udayan
Spring 2025
This course emphasizes fundamentals of quantum mechanics and statistical thermodynamics with applications to topics such as quantum dots, superconductivity, polymers, and critical phenomenon.

Credits: 3
Room and Schedule: Merkert Chemistry Center 127 TuTh 10:30AM-11:45AM
Satisifies Core Requirement: None
Prerequisites: MATH2202 or 2203 Multivariable Calculus (can be taken concurrently); PHYS2100-2101 or PHYS2200-2201 Introductory Physics I-II (can be taken concurrently)
Corequisites: MATH2202 and PHYS2100-2101/2200-2201 are pre- or co-requisites.
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449201
Introduction to Undergraduate Research II
Bao, Junwei L
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM449202
Introduction to Undergraduate Research II
Zhou, Huiqing
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449203
Introduction to Undergraduate Research II
Liu, Shih-Yuan
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None

Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449204
Introduction to Undergraduate Research II
Morken, James P
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449205
Introduction to Undergraduate Research II
Chatterjee, Abhishek
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT

Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449206
Introduction to Undergraduate Research II
Hoveyda, Amir H
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449207
Introduction to Undergraduate Research II
Mohanty, Udayan
Spring 2025

CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449208
Introduction to Undergraduate Research II
Niu, Jia
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449209

Introduction to Undergraduate Research II
Huang, Jier
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449210
Introduction to Undergraduate Research II
Snapper, Marc
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449211
Introduction to Undergraduate Research II
Grimaud, Alexis
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449212
Introduction to Undergraduate Research II
O'Connell, Lynne A
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM449213
Introduction to Undergraduate Research II
Waegele, Matthias
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449214
Introduction to Undergraduate Research II
Dept, Chem
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None

Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449215
Introduction to Undergraduate Research II
Dept, Chem
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449216
Introduction to Undergraduate Research II
Gao, Jianmin
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT

Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449217
Introduction to Undergraduate Research II
Wang, Dunwei
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449218
Introduction to Undergraduate Research II
Weerapana, Eranthie
Spring 2025

CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449219
Introduction to Undergraduate Research II
Zhang, Xiao-Xiang
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM449220

Introduction to Undergraduate Research II
Dept, Chem
Spring 2025
CHEM5591-5592 or CHEM5593-5594 cannot be taken concurrently. . Sophomores or juniors who show exceptional ability may engage in an independent research project under the supervision of a faculty member. The experimental work will be preceded by library research on the project and training in essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: CHEM1110 and CHEM1109 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM551001
Drug Discovery and Medicinal Chemistry
Deak, Holly L
Spring 2025
This course will provide an overview of the drug development process with an emphasis on the discovery and pre-clinical phases of developing a therapeutic agent. Students will gain an understanding of the fundamental concepts of drug design including the relationships between physicochemical properties, pharmacokinetics, pharmacology, and biological mechanism of action and the chemical structure of drug candidates. Case studies of important drugs will be invoked to facilitate discussion surrounding these topics. The chemical synthesis of these drugs will also be emphasized. The course will conclude with guest lectures from scientists at the forefront of the field. The foundational understanding of drug discovery and development gained in this course will be beneficial to those considering research and healthcare careers.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: None
Prerequisites: CHEM2232 or BIOL2000 recommended in addition to CHEM2232
Corequisites: None

Cross-listed with: None
Frequency: Periodically in the Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM551301
Synthetic Biology: at the interface of Biology, Chemistry, and Engineering
Chatterjee, Abhishek
Spring 2025
Traditionally, biological sciences have focused on characterizingexistingbiological systems. As our understanding of the natural biological systems advanced dramatically over the last century, opportunities to create 'synthetic' biological systems with novel functions emerged. Synthetic Biology is a young cross-disciplinary field that aspires to transform the promise of engineering new biological functions into a reality. Over the last two decades, synthetic biology has advanced tremendously, providing us transformative new tools to study biology, as well as powerful new therapeutic strategies that are revolutionizing modernmedicine. This course will provide a primer to this discipline by introducing some of the core topics, followed by student-led discussions of recent literature.

Credits: 3
Room and Schedule: Merkert Chemistry Center 129 TuTh 12:00 Noon-01:15PM
Satisifies Core Requirement: None
Prerequisites: CHEM2231;one course in biochemistry;one semester of molecular/cell biology
Corequisites: None
Cross-listed with: None
Frequency: Periodically
Student Level: Both
Comments: None
Status: Offered

CHEM552301
Organometallic Chemistry
Zhang, Xiao-Xiang
Spring 2025

The course is intended for graduate students and advanced undergraduates who have completed or are currently enrolled in organic and inorganic chemistry courses.. This course will present concepts of organometallic chemistry, e.g., the chemistry of compounds that have bonds between metals and carbon. Organotransition metal chemistry will be emphasized. Among the areas to be covered will be structure and bonding in organotransition metal complexes, ligand systems, catalysis, polymerizations, common reactions, and applications in organic synthesis.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 TuTh 10:30AM-11:45AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Spring
Student Level: Both
Comments: None
Status: Offered

CHEM552501
Small Molecule X-Ray Crystallography
Li, Bo
Spring 2025
This course is open to advanced undergraduate and graduate students.. The objective of the course is to provide detailed theoretical and practical instructions on small molecule X-ray crystallography. Topics include geometry and structure of crystalline solids, internal and external symmetry properties as a consequence of atomic types and bonding possibilities: lattice types and space groups, x-ray diffraction, and optical techniques. Students will get practical experience on sample preparation, operation of the instrumentation, data acquisition, structure solution, and refinement.

Credits: 3
Room and Schedule: Lyons Hall 315 MW 04:30PM-05:45PM
Satisifies Core Requirement: None
Prerequisites: CHEM3322
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Fall,Periodically in the Spring

Student Level: Both
Comments: None
Status: Offered

CHEM554001
Magnetic Resonance in Biology
Jayasundera, Thusitha
Spring 2025
This course will focus on the applications of magnetic resonance in chemistry, chemical biology, biochemistry, and biophysics. Hands-on projects that deal with NMR chemical shift assignments of biological macromolecules such as proteins and oligonucleotides (DNA/RNA) form the core of the class. Related topics such as magnetic resonance imaging (MRI), NMR in metabolomics and drug discovery, dynamic nuclear polarization (DNP), and electron paramagnetic resonance (EPR) will also be discussed. Concurrent lab sessions will solve problems using magnetic resonancemethods to make the experience more practical and useful.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 Tu 06:00PM-08:30PM
Satisifies Core Requirement: None
Prerequisites: Organic Chemistry and Biochemistry are recommended prerequisites.
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Both
Comments: None
Status: Offered

CHEM554101
Chemical Genomics and Proteomics
Bak, Daniel W
Spring 2025

The purpose of this course is to expose students to current topics in chemical genomics, chemical proteomics and related -omics sciences. The course will cover cutting-edge genomic and proteomic experimental methods and platforms as well as explore the rapidly expanding role that chemistry plays within these research areas. As an advanced biochemistry elective, students will further their knowledge of gene and protein function, biomolecular chemical modifications, cellular signaling, and drug discovery. By the end of the course, students will have: 1) a detailed understanding of the history and future direction of chemical genomics and proteomics; 2) an appreciation for the role that chemical probes, inhibitors, and small molecule libraries play in genomic and proteomic research; 3) an understanding of how to apply chemical genomics and proteomics platforms to answer specific and appropriate scientific questions; and 4) the analytical and computational skills necessary to interpret and analyze large genomic and proteomic datasets.

Credits: 3
Room and Schedule: Stokes Hall 301N TuTh 04:30PM-05:45PM
Satisifies Core Requirement: None
Prerequisites: CHEM2232 or A course in biochemistry such as CHEM4461-4462, CHEM4465, BIOL4350&4400, or equivalent
Corequisites: None
Cross-listed with: None
Frequency: Periodically
Student Level: Both
Comments: None
Status: Offered

CHEM554401
Modern Methods in Organic Synthesis II
Hoveyda, Amir H;Snapper, Marc
Spring 2025
Survey and analysis of contemporary strategies employed in the synthesis of medicinally significant natural and unnatural products. Examines the creativity and logic of approaches toward medicinally important compounds. Topics will include novel strategies toward synthetic problems and landmark total syntheses as well as issues in the current chemical literature.

Credits: 3
Room and Schedule: Merkert Chemistry Center 129 MWF 09:00AM-09:50AM
Satisifies Core Requirement: None
Prerequisites: CHEM5531

Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Both
Comments: None
Status: Offered

CHEM554801
Polymer Chemistry
Niu, Jia
Spring 2025
This course covers modern synthetic methods in polymer chemistry and general principles that govern the unique properties of macromolecules. Synthetic methods that will be covered include radical, anionic, and cationic initiated polymerization reactions as well as metal-mediated polymerization reactions. Strategies used by chemists to control polymer molecular weight, stereochemistry (i.e., tacticity), and polymer microstructure (e.g., block, random, and alternating co-polymers) will be emphasized. Polymer characterization techniques will also be covered that include measuring molecular weight and molecular weight distributions, and determining polymer thermal and mechanical properties. To complement tutorial-style lectures, this course also consists of seminar-style talks given by the instructors and invited speakers on contemporary research topics in polymer science that cover a wide range of topics, such as conductive polymers, fluoropolymers, sequence-controlled polymers, biomaterials, sustainable polymers, polymer networks, drug delivery, and mechanochemistry.

Credits: 3
Room and Schedule: Higgins Hall 263 TuTh 09:00AM-10:15AM
Satisifies Core Requirement: None
Prerequisites: CHEM2234 and CHEM2232
Corequisites: None
Cross-listed with: None
Frequency: Periodically
Student Level: Both
Comments: None
Status: Offered

CHEM555201
Advanced Methods in Chemistry I

Metz, Kenneth R, PHD
Spring 2025
This course discusses the principles, methods, and applications of instrumental techniques such as calorimetry, chromatography, lasers, and optical spectroscopy in modern chemistry, along with techniques for the analysis and interpretation of experimental data. It is intended mainly for third year students. The accompanying laboratory includes experiments with these methods and emphasizes experimental design, data interpretation, and the presentation of results in written and oral formats.

Credits: 4
Room and Schedule: Merkert Chemistry Center 130 Th 06:00PM-08:00PM
Satisifies Core Requirement: None
Prerequisites: CHEM3351 and CHEM4475
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM555202
Advanced Methods in Chemistry I
Metz, Kenneth R, PHD
Spring 2025
This course discusses the principles, methods, and applications of instrumental techniques such as calorimetry, chromatography, lasers, and optical spectroscopy in modern chemistry, along with techniques for the analysis and interpretation of experimental data. It is intended mainly for third year students. The accompanying laboratory includes experiments with these methods and emphasizes experimental design, data interpretation, and the presentation of results in written and oral formats.

Credits: 4
Room and Schedule: Merkert Chemistry Center 1 TuTh 12:00 Noon-04:00PM
Satisifies Core Requirement: None
Prerequisites: CHEM3351 and CHEM4475
Corequisites: None
Cross-listed with: None
Frequency: Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM555203
Advanced Methods in Chemistry I
Metz, Kenneth R, PHD
Spring 2025
This course discusses the principles, methods, and applications of instrumental techniques such as calorimetry, chromatography, lasers, and optical spectroscopy in modern chemistry, along with techniques for the analysis and interpretation of experimental data. It is intended mainly for third year students. The accompanying laboratory includes experiments with these methods and emphasizes experimental design, data interpretation, and the presentation of results in written and oral formats.

Credits: 4
Room and Schedule: Merkert Chemistry Center 1 WF 12:00 Noon-04:00PM
Satisifies Core Requirement: None
Prerequisites: CHEM3351 and CHEM4475
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM556101
Principles and Methods in Biophysical Chemistry
Zhou, Huiqing
Spring 2025

This course is an introduction to the key principles and experimental methods of contemporary biophysics and biophysical chemistry. The course primarily discusses the structures and dynamics of biomolecules (such as nucleic acids and proteins), including the biophysical principles and measurements for biomolecular folding/unfolding, as well as determination of biomolecular structure and dynamics by methods such as X-ray crystallography, cryogenic electron microscopy, and Nuclear Magnetic Resonance spectroscopy. Critical evaluations of determined structures by selected methods and applications of structural biology will be emphasized. The course will also cover principles and methods for determining ligand binding to biological macromolecules.

Credits: 3
Room and Schedule: Merkert Chemistry Center 129 TuTh 10:30AM-11:45AM
Satisifies Core Requirement: None
Prerequisites: CHEM4461 or CHEM4465 or BIOL4350 or equivalent; a physical chemistry course is NOT required as a pre- or co-requisite
Corequisites: None
Cross-listed with: None
Frequency: Annually
Student Level: Both
Comments: None
Status: Offered

CHEM557501
Introduction to Spectroscopy
Huang, Jier
Spring 2025
Broadly defined, spectroscopy is the study of the interaction of electromagnetic radiation with matter. For the chemist, spectroscopy is a powerful tool for determining molecular structure and dynamics. This course will focus on the techniques most applied in chemistry including rotational, vibrational and electronic spectroscopy. The topics to be covered include light-matter interaction, group theory and various types of spectroscopy techniques. The student will gain familiarity with the basic principles and methods of spectroscopy, be able to discuss the information gleaned from each type of spectroscopic method, and become proficient in the application of group theoretical methods to determine transition selection rules.

Credits: 3
Room and Schedule: Merkert Chemistry Center 129 TuTh 01:30PM-02:45PM
Satisifies Core Requirement: None

Prerequisites: A course in quantum chemistry such as CHEM4476 Physical Chemistry II. Undergraduate students must obtain the permission of the instructor.
Corequisites: None
Cross-listed with: None
Frequency: Annually
Student Level: Both
Comments: None
Status: Offered

CHEM559201
Undergraduate Chemical Research II
Bao, Junwei L
Spring 2025
Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559202
Undergraduate Chemical Research II
Morken, James P
Spring 2025

Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559203
Undergraduate Chemical Research II
Liu, Shih-Yuan
Spring 2025
Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559204

Undergraduate Chemical Research II
Hoveyda, Amir H
Spring 2025
Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559205
Undergraduate Chemical Research II
Grimaud, Alexis
Spring 2025
Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559206
Undergraduate Chemical Research II
Huang, Jier
Spring 2025
Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559207
Undergraduate Chemical Research II
O'Connell, Lynne A
Spring 2025
Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM559208
Undergraduate Chemical Research II
Mohanty, Udayan
Spring 2025
Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559209
Undergraduate Chemical Research II
Waegele, Matthias
Spring 2025
Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None

Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559210
Undergraduate Chemical Research II
Snapper, Marc
Spring 2025
Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559211
Undergraduate Chemical Research II
Dept, Chem
Spring 2025
Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT

Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559212
Undergraduate Chemical Research II
Dept, Chem
Spring 2025
Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559213
Undergraduate Chemical Research II
Gao, Jianmin
Spring 2025

Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559214
Undergraduate Chemical Research II
Wang, Dunwei
Spring 2025
Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559215

Undergraduate Chemical Research II
Dept, Chem
Spring 2025
Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559216
Undergraduate Chemical Research II
Metz, Kenneth R, PHD
Spring 2025
Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559217
Undergraduate Chemical Research II
Zhang, Xiao-Xiang
Spring 2025
Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559218
Undergraduate Chemical Research II
Dept, Chem
Spring 2025
Course is intended for seniors. . The essential feature of this course is an independent research project performed under the supervision of a faculty member. The individual work will be preceded by a series of lectures and demonstrations on the use of the library and several essential laboratory techniques.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

CHEM559401
Undergraduate Biochemical Research II
Zhou, Huiqing
Spring 2025
Course is intended for seniors.. Independent research in biochemistry to be carried out under the supervision of a faculty member. A written report and an oral presentation are required at the end of the second semester.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559402
Undergraduate Biochemical Research II
Weerapana, Eranthie
Spring 2025
Course is intended for seniors.. Independent research in biochemistry to be carried out under the supervision of a faculty member. A written report and an oral presentation are required at the end of the second semester.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559403
Undergraduate Biochemical Research II
Niu, Jia
Spring 2025
Course is intended for seniors.. Independent research in biochemistry to be carried out under the supervision of a faculty member. A written report and an oral presentation are required at the end of the second semester.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559404
Undergraduate Biochemical Research II
Dept, Chem
Spring 2025
Course is intended for seniors.. Independent research in biochemistry to be carried out under the supervision of a faculty member. A written report and an oral presentation are required at the end of the second semester.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None

Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559405
Undergraduate Biochemical Research II
Chatterjee, Abhishek
Spring 2025
Course is intended for seniors.. Independent research in biochemistry to be carried out under the supervision of a faculty member. A written report and an oral presentation are required at the end of the second semester.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559406
Undergraduate Biochemical Research II
Gao, Jianmin
Spring 2025
Course is intended for seniors.. Independent research in biochemistry to be carried out under the supervision of a faculty member. A written report and an oral presentation are required at the end of the second semester.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None

Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559601
Advanced Research in Chemistry II
Dept, Chem
Spring 2025
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559602
Advanced Research in Chemistry II
Dept, Chem
Spring 2025

Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559603
Advanced Research in Chemistry II
Dept, Chem
Spring 2025
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559604
Advanced Research in Chemistry II
Morken, James P
Spring 2025
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559605
Advanced Research in Chemistry II
Hoveyda, Amir H
Spring 2025
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559606
Advanced Research in Chemistry II
Dept, Chem
Spring 2025
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559607
Advanced Research in Chemistry II
Liu, Shih-Yuan
Spring 2025
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT

Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559608
Advanced Research in Chemistry II
Mohanty, Udayan
Spring 2025
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559609
Advanced Research in Chemistry II
Dept, Chem
Spring 2025

Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559610
Advanced Research in Chemistry II
Snapper, Marc
Spring 2025
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559611
Advanced Research in Chemistry II
Wang, Dunwei
Spring 2025
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559612
Advanced Research in Chemistry II
Dept, Chem
Spring 2025
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559801
Advanced Research in Biochemistry II
Chatterjee, Abhishek
Spring 2025
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559802
Advanced Research in Biochemistry II
Gao, Jianmin
Spring 2025
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT

Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559803
Advanced Research in Biochemistry II
Niu, Jia
Spring 2025
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559804
Advanced Research in Biochemistry II
Zhou, Huiqing
Spring 2025

Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM559805
Advanced Research in Biochemistry II
Weerapana, Eranthie
Spring 2025
Seniors only. Arrangement with an individual faculty member and departmental permission is required. This is a two-semester course and may not be taken for only one semester. A substantial independent research project performed under the supervision of a faculty member. Seniors whose projects are judged by the department to be of the highest quality, and who maintain a minimum GPA of 3.70, will be nominated for Scholar of the College recognition.

Credits: 6
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM660201
Senior Thesis Research in Chemistry II
Morken, James P
Spring 2025
An independent research project performed under the supervision of a faculty member. A written thesis is required to culminate the project.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM660202
Senior Thesis Research in Chemistry II
Hoveyda, Amir H
Spring 2025
An independent research project performed under the supervision of a faculty member. A written thesis is required to culminate the project.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM660203

Senior Thesis Research in Chemistry II
Mohanty, Udayan
Spring 2025
An independent research project performed under the supervision of a faculty member. A written thesis is required to culminate the project.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM660204
Senior Thesis Research in Chemistry II
Zhang, Xiao-Xiang
Spring 2025
An independent research project performed under the supervision of a faculty member. A written thesis is required to culminate the project.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM660205
Senior Thesis Research in Chemistry II

Dept, Chem
Spring 2025
An independent research project performed under the supervision of a faculty member. A written thesis is required to culminate the project.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM660401
Senior Thesis Research in Biochemistry II
Niu, Jia
Spring 2025
An independent research project performed under the supervision of a faculty member. A written thesis is required to culminate the project.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM660402
Senior Thesis Research in Biochemistry II
Gao, Jianmin

Spring 2025

An independent research project performed under the supervision of a faculty member. A written thesis is required to culminate the project.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM660403
Senior Thesis Research in Biochemistry II
Weerapana, Eranthie
Spring 2025

An independent research project performed under the supervision of a faculty member. A written thesis is required to culminate the project.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

CHEM661101
Scientific Communication in Chemistry
Huang, Jier;Snapper, Marc
Spring 2025

This course seeks to best facilitate the transition of incoming graduate students to successful researchers in chemistry. Specifically, students in this course will practice and improve on various communication skills including scientific presentations, as well as writing articles and proposals. Ethics and social responsibilities of performing chemical research will also be discussed.

Credits: 3
Room and Schedule: Campion Hall 235 TuTh 09:00AM-10:15AM
Satisifies Core Requirement: None
Prerequisites: Undergraduates may enroll with permission of the instructors.
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM779901
Readings and Research I
Dept, Chem
Spring 2025
A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM779902
Readings and Research I
Dept, Chem

Spring 2025

A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM779903
Readings and Research I
Gao, Jianmin
Spring 2025

A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM880001
Readings and Research II
Dept, Chem
Spring 2025

A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM880002
Readings and Research II
Dept, Chem
Spring 2025
A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM880003
Readings and Research II
Niu, Jia
Spring 2025
A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT

Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM880004
Readings and Research II
Chatterjee, Abhishek
Spring 2025
A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM880005
Readings and Research II
Hoveyda, Amir H
Spring 2025
A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None

Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM880006
Readings and Research II
Snapper, Marc
Spring 2025
A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM880007
Readings and Research II
Dept, Chem
Spring 2025
A course required of Ph.D. matriculants for each semester of research.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate

Comments: None
Status: Offered

CHEM880201
Thesis Direction
Dept, Chem
Spring 2025
A non-credit course for those who have received six credits for Thesis Seminar but who have not finished their thesis. This course must be registered for and the continuation fee paid each semester until the thesis is completed.

Credits: 1
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM880601
Departmental Seminar II
Dept, Chem
Spring 2025
This is a series of research seminars by leading scientists, both from within the department and from other institutions, that are presented on a regular (usually weekly) basis.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 Th 03:00PM-06:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate

Comments: None
Status: Offered

CHEM880602
Departmental Seminar II
Dept, Chem
Spring 2025
This is a series of research seminars by leading scientists, both from within the department and from other institutions, that are presented on a regular (usually weekly) basis.

Credits: 0
Room and Schedule: Merkert Chemistry Center 127 F 03:00PM-06:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM880603
Departmental Seminar II
Dept, Chem
Spring 2025
This is a series of research seminars by leading scientists, both from within the department and from other institutions, that are presented on a regular (usually weekly) basis.

Credits: 0
Room and Schedule: Merkert Chemistry Center 129 F 03:00PM-06:00PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate

Comments: None
Status: Offered

CHEM882201
Inorganic Chemistry Seminar II
Dept, Chem
Spring 2025
This is a series of research seminars by leading scientists, both from within the department and from other institutions, that are presented on a regular (usually weekly) basis.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 M 03:00PM-05:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM883201
Organic Chemistry Seminar II
Dept, Chem
Spring 2025
This is a series of research seminars by leading scientists, both from within the department and from other institutions, that are presented on a regular (usually weekly) basis.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 Tu 03:00PM-05:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate

Comments: None
Status: Offered

CHEM886201
Biochemistry Seminar II
Dept, Chem
Spring 2025
This is a series of research seminars by leading scientists, both from within the department and from other institutions, that are presented on a regular (usually weekly) basis.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 W 03:00PM-05:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM887201
Physical Chemistry Seminar II
Dept, Chem
Spring 2025
This is a series of research seminars by leading scientists, both from within the department and from other institutions, that are presented on a regular (usually weekly) basis.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 F 03:00PM-05:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate

Comments: None
Status: Offered

CHEM887202
Physical Chemistry Seminar II
Dept, Chem
Spring 2025
This is a series of research seminars by leading scientists, both from within the department and from other institutions, that are presented on a regular (usually weekly) basis.

Credits: 3
Room and Schedule: Merkert Chemistry Center 130 Th 03:00PM-05:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate
Comments: None
Status: Offered

CHEM888801
Interim Study
Mahoney, Dale L
Spring 2025
TBD

Credits: 0
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

CHEM999901
Doctoral Continuation
Mahoney, Dale L
Spring 2025

All students who have been admitted to candidacy for the Ph.D. degree are required to register and pay the fee for doctoral continuation during each semester of their candidacy. Doctoral Continuation requires a commitment of at least 20 hours per week working on the dissertation.

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered
