

CHMY - Chemistry

CHMY 121IN. Introduction to General Chemistry. 4 Credits. (2 Lec, 1 Lab, 1 Rct) F,S,Su

PREREQUISITE: C- or above in M 096 or M 097 or placement in a Math Level 3 via MPLEX/ACT/SAT (ACT 23 or SAT 540). Introductory general chemistry covering measurement systems, atomic structure, chemical periodicity, bonding, chemical reactions, acid-base chemistry, electrochemistry, and nuclear chemistry. Common hour exams. 202150.

Term	CRN	Section	Session/Dates	Days	Location	Time
2020 Summer Semester	10496	050	First Half Session	-	-	-
2020 Summer Semester	10532	003	First Half Session	MW	GAINES218	12:30pm - 4:05pm
2020 Summer Semester	10283	001	First Half Session	MTWR	GAINES344	7:30am - 8:35am
2020 Summer Semester	10283	001	First Half Session	F	GAINES344	7:30am - 9:50am
2020 Summer Semester	10284	002	First Half Session	MW	GAINES216	12:30pm - 4:05pm

CHMY 123. Introduction to Organic Chemistry and Biochemistry. 4 Credits. (2 Lec, 1 Lab, 1 Rec) F,S,Su

PREREQUISITE: C- or above in CHMY 121IN or CHMY 143. An introduction into functional group organic chemistry and reactivity, and important biochemical structures, concepts, and processes. The laboratory is closely integrated with lecture coverage. 202150.

Term	CRN	Section	Session/Dates	Days	Location	Time
2020 Summer Semester	10500	050	Second Half Session	-	-	-
2020 Summer Semester	10280	001	Second Half Session	MTWRF	ROBERT319	7:30am - 8:45am
2020 Summer Semester	10281	002	Second Half Session	TR	GAINES347	9:00am - 12:00pm
2020 Summer Semester	10282	003	Second Half Session	TR	GAINES349	12:30pm - 4:05pm

CHMY 141. College Chemistry I. 4 Credits. (3 Lec, 1 Lab) F,S,Su

PREREQUISITE: C- or above in M 121Q or placement in a Math Level 4 (ACT 25 or SAT 580). The first of a two-semester course sequence about the general principles of modern chemistry with emphasis on atomic structure, chemical bonding, the periodic table, equilibria, chemical reactivity, and kinetics. It is recommended that students registering for this course have taken high school chemistry. Common Hour Exams. 202150.

Term	CRN	Section	Session/Dates	Days	Location	Time
2020 Summer Semester	10389	004	First Half Session	MW	GAINES247	12:30pm - 4:05pm
2020 Summer Semester	10405	050	First Half Session	-	-	-
2020 Summer Semester	10274	001	First Half Session	MWRF	GAINES043	10:00am - 11:05am
2020 Summer Semester	10274	001	First Half Session	T	GAINES043	10:00am - 12:20pm
2020 Summer Semester	10275	002	First Half Session	MW	GAINES249	12:30pm - 4:05pm
2020 Summer Semester	10276	003	First Half Session	MW	GAINES245	12:30pm - 4:05pm

CHMY 143. College Chemistry II. 4 Credits. (3 Lec, 1 Lab) F,S,Su
PREREQUISITE: C- or above in CHMY 141 or CHMY 151. The second semester of the two-semester general chemistry sequence. Topics covered during this semester include properties of solutions, chemical kinetics, aqueous equilibria, thermodynamics, and electrochemistry. Common Hour Exams.

Term	CRN	Section	Session/Dates	Days	Location	Time
2020 Summer Semester	10501	050	Second Half Session	-	-	-
2020 Summer Semester	10277	001	Second Half Session	MWRF	GAINES249	10:00am - 11:05am
2020 Summer Semester	10277	001	Second Half Session	T	GAINES249	10:00am - 12:20pm
2020 Summer Semester	10278	002	July-start: 4x4	MTWR	GAINES249	2:10pm - 5:00pm
2020 Summer Semester	10279	003	Second Half Session	MW	GAINES	12:30pm - 4:05pm
2020 Summer Semester	10311	004	Second Half Session	MW	GAINES245	12:30pm - 4:05pm

CHMY 321. Organic Chemistry I. 4 Credits. (3 Lec, 1 Lab) F,S,Su

PREREQUISITE: CHMY 143 or CHMY 153. The first of a two-semester professional sequence in organic chemistry. Topics include in-depth coverage of conformational analysis, stereochemistry, acid/base chemistry, nomenclature and reactivity of and reactions mechanism for organic compounds including radical reactions of alkanes and the reactivity of alkyl halides, alkenes and alkynes.

Term	CRN	Section	Session/Dates	Days	Location	Time
2020 Summer Semester	10502	050	First Half Session	-	-	-
2020 Summer Semester	10033	001	First Half Session	MTRF	GAINES243	10:00am - 11:05am
2020 Summer Semester	10033	001	First Half Session	W	GAINES243	10:00am - 12:20pm
2020 Summer Semester	10034	002	First Half Session	M	GAINES316	12:00pm - 3:35pm
2020 Summer Semester	10034	002	First Half Session	W	GAINES316	1:00pm - 4:35pm
2020 Summer Semester	10035	003	First Half Session	M	GAINES	12:00pm - 3:35pm
2020 Summer Semester	10035	003	First Half Session	W	GAINES	1:00pm - 4:35pm
2020 Summer Semester	10192	004	First Half Session	TR	GAINES318	12:00pm - 3:35pm

CHMY 323. Organic Chemistry II. 4 Credits. (3 Lec, 1 Lab) F,S,Su

PREREQUISITE: CHMY 321. The second semester of the two-semester professional sequence in organic chemistry. Topics include the characterization of organic compounds by Mass Spectrometry as well as IR and NMR spectroscopy. Reactions, including mechanisms, of alcohols, ethers, amines, arenes, aldehydes, ketones, enolates, carboxylic acids and carboxylic acid derivatives are covered in depth.

Term	CRN	Section	Session/Dates	Days	Location	Time
2020 Summer Semester	10503	050	Second Half Session	-	-	-
2020 Summer Semester	10180	001	Second Half Session	MTRF	GAINES043	10:00am - 11:05am
2020 Summer Semester	10180	001	Second Half Session	W	GAINES043	10:00am - 12:20pm
2020 Summer Semester	10181	002	Second Half Session	TR	GAINES316	12:00pm - 3:35pm
2020 Summer Semester	10182	003	Second Half Session	M	GAINES318	12:00pm - 3:35pm
2020 Summer Semester	10182	003	Second Half Session	W	GAINES318	1:00pm - 4:35pm
2020 Summer Semester	10198	004	Second Half Session	M	GAINES318	12:00pm - 3:35pm
2020 Summer Semester	10198	004	Second Half Session	W	GAINES318	1:00pm - 4:35pm

CHMY 506. Integrating Computers into Laboratory Instruction. 2 Credits. (1 Lec, 1 Lab) Su

PREREQUISITE: Secondary teacher certification and 2 years teaching experience. One year introductory chemistry course (CHMY 142 and 143) and coursework or experience equivalent to one semester physical chemistry (CHMY 361). A baccalaureate degree and experience teaching science at the secondary level are required. The course will examine and discuss fundamental and critical concepts in chemistry. A practical laboratory component will enable students to develop laboratory and/or demonstration projects for each concept. Individual student-generated presentations are a key course component.

Term	CRN	Section	Session/Dates	Days	Location	Time
2020 Summer Semester	11361	001	Non-standard term dates 20-JUL-20 24-JUL-20	MTWRF	GAINES243	8:00am - 5:00pm

CHMY 557. Quantum Mechanics. 3 Credits. (3 Lec) F alternate years, to be offered even years.

PREREQUISITE: CHMY 373 or equivalent. Applications of quantum mechanics to molecules and spin systems.

Term	CRN	Section	Session/Dates	Days	Location	Time
2020 Summer Semester	11457	001	Full Semester	-	-	-

CHMY 587. Exploring Chemistry for Teachers. 3 Credits. (3 Lec) Su

PREREQUISITES: Teacher of science with a minimum of two years teaching experience. The course will lead to a greater understanding of chemical concepts, provide resources and ideas for class activities, and advice from fellow teachers with the ultimate goal of enhancing your teaching abilities—and giving you confidence in your understanding of the material. The level of content is appropriate for either a stand-alone class in high school or as a section in an integrated science class. Students of this course will gain insight to how topics in chemistry are linked together and how they can all be applied to explain other areas of science and topics of public concern.

Term	CRN	Section	Session/Dates	Days	Location	Time
2020 Summer Semester	11115	801	Non-standard term dates 08-JUN-20 31-JUL-20	-	ONLINEWEB-	

CHMY 594. Seminar. 1 Credit. (1 Sem; 4 cr max) On Demand

Max 4 cr. PREREQUISITE: Graduate standing or seniors by petition. Course prerequisites as determined for each offering. Topics offered at the graduate level which are not covered in regular courses. Students participate in preparing and presenting discussion material. Cross-Listed with BCH 594.

Term	CRN	Section	Session/Dates	Days	Location	Time
2020 Summer Semester	10833	001	Non-standard term dates 29-JUN-20 02-JUL-20	MTWR	CBB3	1:00pm - 4:00pm

CHMY 595. Chemistry of the Environment for Teachers. 3 Credits. (2 Lec, 1 Lab) Su

PREREQUISITES: Teacher of science with 2 years minimum teaching experience and undergraduate chemistry course. This course is designed to familiarize existing secondary teacher (ideally 8th and 9th grade) with basic general science and chemistry concepts of the environment, including water, air and Earth - as well as to provide opportunities to enrich these chemistry concepts through applications and examples. Since this course will be building upon basic chemistry concepts, teachers taking this course should have taken general chemistry at the undergraduate level, or the equivalent.

Term	CRN	Section	Session/Dates	Days	Location	Time
2020 Summer Semester	11116	801	Non-standard term dates 08-JUN-20 31-JUL-20	-	ONLINEWEB-	

CHMY 597. Exploring Biochemistry I for Teachers. 3 Credits. (3 Lec) Su

Alternate Odd Years PREREQUISITES: Teacher of science with a minimum of 2 years teaching experience. Background in general chemistry, organic chemistry, and biology. The course will consider the reactions of the principle biochemical molecules (carbohydrates, lipids, proteins, and nucleic acids) with additional emphasis on biomedical topics. The primary goal of this course is to promote critical thinking about important, current health issues and to examine the role of laboratory modules in teaching these concepts. General biochemistry principles will be presented to understand the diseases under review. Written material will be provided on advanced topics.

Term	CRN	Section	Session/Dates	Days	Location	Time
2020 Summer Semester	11216	801	Intersession	-	ONLINEWEB-	

Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.