CHMY - Chemistry

CHMY 121N. Introduction to General Chemistry. 4 Credits. (2 Lec, 1 Lab, 1 Rec) 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. 2021/50.

Term | CRN  | Section | Session/Dates | Days | Location | Time
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2020 Summer | 10496 | 050 | First Half | Session | MW | GAINES218 | 12:30pm - 4:05pm
2020 Summer | 10532 | 003 | First Half | Session | MTWR | GAINES344 | 7:30am - 8:35am
2020 Summer | 10283 | 001 | First Half | Session | F | GAINES344 | 7:30am - 9:50am
2020 Summer | 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 121N 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. 2021/50.

Term | CRN  | Section | Session/Dates | Days | Location | Time
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2020 Summer | 10580 | 050 | Second Half | Session | MTWRF ROBERT319 | 7:30am - 8:45am
2020 Summer | 10280 | 001 | Second Half | Session | TR | GAINES347 | 9:00am - 12:00pm
2020 Summer | 10281 | 002 | Second Half | Session | TR | GAINES349 | 12:30pm - 4:05pm
2020 Summer | 10282 | 003 | Second Half | Session | MW | GAINES249 | 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. 2021/50.

Term | CRN  | Section | Session/Dates | Days | Location | Time
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2020 Summer | 10389 | 004 | First Half | Session | MW | GAINES247 | 12:30pm - 4:05pm
2020 Summer | 10405 | 050 | First Half | Session | MWRF | GAINES043 | 10:00am - 11:05am
2020 Summer | 10274 | 001 | First Half | Session | T | GAINES043 | 10:00am - 12:20pm
2020 Summer | 10275 | 002 | First Half | Session | MW | GAINES249 | 12:30pm - 4:05pm
2020 Summer | 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
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2020 Summer | 10501 | 050 | Second Half | Session | - | -
2020 Summer | 10277 | 001 | Second Half | Session | MWRF | GAINES249 | 10:00am - 12:20pm
2020 Summer | 10277 | 001 | Second Half | Session | T | GAINES249 | 10:00am - 12:20pm
2020 Summer | 10278 | 002 | July-start | Session | MWRF | GAINES249 | 2:10pm - 5:00pm
2020 Summer | 10279 | 003 | Second Half | Session | MW | GAINES | 12:30pm - 4:05pm
2020 Summer | 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
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2020 Summer | 10502 | 050 | First Half | Session | - | -
2020 Summer | 10033 | 001 | First Half | Session | MTWR | GAINES243 | 10:00am - 11:05am
2020 Summer | 10033 | 001 | First Half | Session | W | GAINES243 | 10:00am - 12:00pm
2020 Summer | 10034 | 002 | First Half | Session | M | GAINES316 | 12:00pm - 2:35pm
2020 Summer | 10034 | 002 | First Half | Session | W | GAINES316 | 1:00pm - 4:05pm
2020 Summer | 10035 | 003 | First Half | Session | M | GAINES | 12:00pm - 3:35pm
2020 Summer | 10035 | 003 | First Half | Session | W | GAINES | 1:00pm - 4:35pm
2020 Summer | 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, amines, aldehydes, ketones, enolates, carboxylic acids and carboxylic acid derivatives are covered in depth.

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

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<td>Non-standard term dates 20-24 JUL-20 20-24 JUL-20</td>
<td>MWF</td>
<td>GAINES243</td>
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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.

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CHMY 587. Exploring Chemistry for Teachers. 3 Credits. (3 Lec) Su
PREREQUISITE: Teacher of science with a minimum of 2 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.

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

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

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

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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.