

Chemistry Major Requirements (48)

Foundation Courses

- CHEM 101 - Introductory University Chemistry I
- CHEM 102 - Introductory University Chemistry II

Senior Courses

- CHEM 211 - Quantitative Analysis I
- CHEM 241 - Introduction to Inorganic Chemistry
- CHEM 261 - Organic Chemistry I
- CHEM 263 - Organic Chemistry II

24 units from:

Any of the following courses:

(with no more than 6 units total from CHEM 299, CHEM 300, CHEM 399, CHEM 401, CHEM 403, and CHEM 499):

BIOCH 200 - Introductory Biochemistry
BIOCH 310 - Bioenergetics and Metabolism
BIOCH 320 - Structure and Catalysis
BIOCH 330 - Nucleic Acids and Molecular Biology
CHEM 213 - Quantitative Analysis II
CHEM 282 - Atomic and Molecular Structure
CHEM 299 - Research Opportunity Program in Chemistry
CHEM 300 - Introduction to Industrial Chemistry
CHEM 303 - Environmental Chemistry I
CHEM 305 - Environmental Chemistry II
CHEM 306 - Green Chemistry
CHEM 313 - Instrumentation in Chemical Analysis
CHEM 333 - Inorganic Materials Chemistry
CHEM 343 - Advanced Inorganic Chemistry
CHEM 351 - Introduction to Chemical Biology
CHEM 361 - Organic Chemistry
CHEM 371 - Energetics of Chemical Reactions
CHEM 373 - Physical Properties and Dynamics of Chemical Systems
CHEM 398 - Molecular Spectroscopy
CHEM 399 - Research Experience in Chemistry
CHEM 401 - Introduction to Chemical Research
CHEM 403 - Chemical Research
CHEM 405 - Special Topics in Chemistry
CHEM 424 - Optical Spectroscopy and Electrochemistry
CHEM 425 - Separations and Mass Spectrometry
CHEM 434 - X-ray Crystallography
CHEM 436 - Synthesis and Applications of Inorganic and Nano-materials
CHEM 437 - Transition Metal Chemistry
CHEM 438 - Solid State Chemistry
CHEM 443 - Asymmetric Catalysis
CHEM 444 - Characterization Methods in Nanoscience
CHEM 451 - Chemical Biology
CHEM 454 - Bioconjugate Chemistry
CHEM 460 - Contemporary Organic Chemistry
CHEM 461 - Qualitative Organic Analysis
CHEM 462 - Physical Organic Chemistry
CHEM 463 - Organic Synthesis
CHEM 477 - Molecular Symmetry and Spectroscopy
CHEM 479 - Molecular Kinetics
CHEM 493 - Computational Chemistry
CHEM 495 - Molecular Dynamics and its Applications
CHEM 499 - Advanced Chemical Research and Training

6 units from:

CHEM at the 400-level _____

Notes

1. Some courses appear in more than one requirement. Students may not use the same course to satisfy more than one requirement.
2. CHEM 299 can be taken twice; CHEM 399 can be taken up to four times.

- COMM
- COMM
- IND
- BO__
- BO__
- BSBS
- BSFS
- BSSS
- LAB