

CHEMISTRY AND BIOCHEMISTRY (CHEM)

CHEM 1305. General Chemistry. 5 Credit Hours.

Prerequisite: MATH 1503 or MATH 1643 or a Math ACT score of 23 or higher. This course covers topics from both semesters of the traditional general chemistry series and is geared towards students who need only one semester of general chemistry, and can fulfill the general education requirement. Topics to be covered may range from biochemistry, inorganic, organic, and environmental chemistry. Not open to students with credit for CHEM 1315, 1335, 1415, or 1435. (F) [II-LAB]

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 1314. General Chemistry. 4 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 1315. General Chemistry. 5 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 1335. General Chemistry I. 5 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 1415. General Chemistry (Continued). 5 Credit Hours.

Prerequisite: 1315 with a minimum grade of C or a satisfactory score on the chemistry placement examination. Topics covered include: nature of solutions, equilibrium, thermodynamics, acid and base properties, kinetics and electrochemistry. Laboratory (F, Sp, Su)

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 1425. General Chemistry For Majors. 5 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 1435. General Chemistry II. 5 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 1613. General Chem Non-Science Major. 3 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 1614. Norman Course. 4 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 1999. Gen Ed-Natural Science w/lab. 0-5 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 2970. Special Topics/Seminar. 3 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3005. Quantitative Analysis. 5 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3012. Organic Chemistry Laboratory. 2 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3013. Organic Chemistry. 3 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3033. Chemistry in Art. 3 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3053. Organic Chemistry I: Biological Emphasis. 3 Credit Hours.

Prerequisite: CHEM 1415 or CHEM 1425. Intended for life science majors. First course in a two-semester sequence (3053 and 3153). This course will cover the concepts of organic structure, nomenclature, and reactivity with an emphasis on biological applications. (F, Sp, Su) 3.000 Credit hours 3.000 Lecture hours Levels: Undergraduate Schedule Types: Independent Study, Lecture, Study Abroad/Reciprocal Exch

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3064. Organic Chemistry I. 4 Credit Hours.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3152. Organic Chemistry Laboratory: Biological Emphasis. 2 Credit Hours.

Prerequisite: CHEM 3053 or concurrent enrollment. Intended for life science majors. Laboratory course designed to accompany CHEM 3053 and CHEM 3153. Selected experiments designed to illustrate the fundamental techniques used in organic chemistry, to develop familiarity with the properties of organic compounds and to introduce analytical techniques including spectroscopy. (F, Sp, Su)

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3153. Organic Chemistry II: Biological Emphasis. 3 Credit Hours.

Prerequisite: CHEM 3053 with a grade of C or better. Intended for life science majors. Second course in a two-semester sequence (3053 and 3153). This course will cover the concepts of organic chemical reactivity with an emphasis on carbohydrates, lipids, and proteins. (F, Sp, Su) 3.000 Credit hours 3.000 Lecture hours Levels: Undergraduate Schedule Types: Independent Study, Lecture

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3164. Organic Chemistry II. 4 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3214. Quantitative Analysis. 4 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3421. Physical Chemistry Laboratory. 1 Credit Hour.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3423. Physical Chemistry I. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3440. Mentored Research Experience. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3451. Basic Physical Chemistry Laboratory. 1 Credit Hour.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3453. Basic Physical Chemistry. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3521. Physical Chemistry Laboratory. 1 Credit Hour.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3523. Physical Chemistry II. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3652. Introduction to Biochemistry Laboratory. 2 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3653. Introduction To Biochemistry. 3 Credit Hours.

Prerequisite: 3013 or equivalent. Chemistry of proteins, carbohydrates, lipids, and nucleic acids, enzyme kinetics, biochemical energetics; intermediary metabolism, regulatory processes.

Course Type: Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3655. Introduction to Biochemistry. 5 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3753. Introduction To Biochemical Methods. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3853. Biochemistry I. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3953. Biochemistry II. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3960. Honors Reading. 1-3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3970. Honors Seminar. 1-3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3980. Honors Research. 1-3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 3990. Independent Study. 1-3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 4023. Instrumental Methods Of Chemical Analysis. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 4033. Instrumental Methods Of Chemical Analysis Laboratory. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 4063. Organic Quality Analysis. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 4213. Norman Course. 0 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 4232. Laboratory Glassblowing. 2 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 4333. Advanced Inorganic Chemistry-Periodic System. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 4444. Advanced Synthesis And Spectral Characterization. 4 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 4503. Applied Oceanography. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 4753. Advanced Biochemistry. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 4913. Senior Thesis. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 4923. Senior Project. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 4933. Current Topics In Biochemistry. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 4970. Special Topics/Seminar. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 4990. Independent Study. 1-3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5001. Practicum Chemical Education. 1 Credit Hour.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5011. Fundamentals I. 1 Credit Hour.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5021. Fundamentals II. 1 Credit Hour.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5023. Instr Methods-Chem Analysis. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5080. Laboratory Rotations. 2 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5090. Departmental Colloquium. 0 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5100. Instrumental Methods-Analysis. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5103. Physical & Chemical Separations. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5110. Spectroscopic Chem Analysis. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5113. Equilibrium And Kinetic Methods Of Analysis. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5120. Separation Methods. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5123. Intermediate Physical Chemistry. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5153. Molecular Symmetry. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5160. Sp Top in Analytic Chem: Instr. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5170. Sp Top Analytic Chem: Method. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5180. Practicum in Analytical Chem. 2 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5191. Seminar in Analytical Chem. 1 Credit Hour.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5200. Principles of Biochemistry. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5201. Seminar In Chemical Education. 1 Credit Hour.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5210. Molecular Biology. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5213. Foundations Chem & Biochem. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5233. Advanced Inorganic Chemistry - Reactions And Mechanisms. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5240. Biochem and Biophys Methods. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5260. Special Topics in Biochem I. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5270. Special Topics in Biochem II. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5280. Practicum in Biochemistry. 2 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5291. Seminar in Biochemistry. 1 Credit Hour.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5300. Intermediate Inorganic Chem. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5313. Foundation Chem & Biochem Cont. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5323. Advanced Organic Chemistry. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5330. Advanced Inorganic Chemistry. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5333. Advanced Inorganic Chemistry - Bonding And Structure. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5360. Frontiers in Inorganic Chem. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5380. Practicum in Inorganic Chem. 2 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5391. Seminar in Inorganic Chemistry. 1 Credit Hour.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5400. Org Chem I: Mech and React. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5430. Org Chem II: React and Syn. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5433. Reaction Chemistry Of The Main-Group Elements. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5450. Struc Char of Org Compounds. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5453. Polymer Science. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5460. Sp Topic Chem React & Phys Org. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5470. Sp Top Bioorg & Spec Org Comp. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5480. Practicum in Organic Chemistry. 2 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5491. Seminar in Organic Chemistry. 1 Credit Hour.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5500. Topics in Quantum Chemistry. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5530. Topics in Stat Thermodynamics. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5570. Select Topics in Physical Chem. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5580. Practicum in Physical Chem. 2 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5591. Seminar in Physical Chemistry. 1 Credit Hour.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5623. Physical Chemistry Iii. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5673. Colloid And Surface Science. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5683. X-Ray Crystallography. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5730. Macromolecular Crystallography. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5733. Principles of Biochemistry I. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5750. Macromol Structure & Function. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5753. Principles Of Biochemistry I. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5760. Spec Topics in Struct Biology. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5780. Practicum in Struct Biology. 2 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5853. Principles Of Biochemistry Ii. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5960. Directed Readings In Chemistry. 1-2 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5970. Special Topics/Seminar. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5980. Research For Master's Thesis. 2-9 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 5990. Independent Studies. 1-3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6103. Electroanalytical Chemistry. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6113. Spectroscopic Methods Of Analysis. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6210. Seminar In Analytical Chemistry. 1-2 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6411. Seminar In Organic Chemistry. 1 Credit Hour.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6431. Colloquium In Organic Chemistry. 1 Credit Hour.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6443. Advanced Organic Chemistry. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6453. Chemical Kinetics. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6553. Molecular Spectroscopy. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6621. Seminar in Physical Chemistry. 1 Credit Hour.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6650. Special Topics In Physical Organic Chemistry. 1-3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6670. Selected Topics In Physical Chemistry. 1-3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6680. Special Topics In Synthetic And Structural Organic Chemistry. 1-3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6721. Seminar - Biochemistry. 1 Credit Hour.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6730. Special Topics In Advanced Analytical Chemistry. 1-3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6733. Special Topics in Biochemistry. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6813. Introduction To Biochemical Methods. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6823. Proteins, Nucleic Acids And Gene Expression. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6833. Structure And Function Of Membranes And Hormones. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6843. Enzyme Mechanisms And Metabolic Regulation. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6850. Seminar In Inorganic Chemistry. 1-2 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6853. Protein Structure And Function. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6863. Advanced Inorganic Chemistry--Properties Of Inorganic Systems. 3 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6970. Departmental Colloquium. 0 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).

CHEM 6980. Research For Doctor's Dissertation. 2-16 Credit Hours.**Course Type:** Lecture

This course is facilitated by the University of Oklahoma Norman Campus. For more information, please visit the OU Course Catalog (<https://ou-public.courseleaf.com/courses/>).