

Chemistry & Biochemistry Courses - FALL 2024

1st year

Course Number:	Course Title:	Instructor(s):
CHEM-1003	<u>Science Through the Ages</u>	TBA
CHEM-1100	<u>General Chemistry I</u>	Phil Dutton Zhuo Wang

2nd year

CHEM-2200	<u>Analytical Chemistry</u>	Jichang Wang
CHEM-2300/2305	<u>Introductory Organic Chemistry</u>	Jim Green
CHEM-2400	<u>Introductory Physical Chemistry I</u>	Jichang Wang
CHEM-2500	<u>Introductory Inorganic Chemistry I</u>	Jeremy Rawson

3rd year

BIOC-3100	<u>Metabolism I</u>	Siyaram Pandey
BIOC-3140	<u>Protein and Enzyme Engineering</u>	Ken Ng (CL with BIOC-8008-1 & -2)
BIOC-3581A	<u>Biotechnology Laboratory</u>	Otis Vacratsis
CHEM-3300/3305	<u>Spectroscopic Structure Identification</u>	Zhuo Wang
CHEM-3500	<u>Organometallic Chemistry</u>	Sam Johnson
CHEM-3710	<u>Materials Chemistry</u>	Tricia Carmichael
CHEM-3909	<u>Internship Work Term I</u>	Nick Vukotic

4th year

BIOC-4030	<u>Enzymology and Biotechnology</u>	Otis Vacratsis
CHEM-4308	<u>Special Topics Organic Chem: Heterocyclic Chemistry</u>	Jim Green (CL with CHEM-8330)
CHEM-4599	<u>Applications of Inorganic Spectroscopy</u>	Sam Johnson (CL with CHEM-8599)
CHEM-4660	<u>Special Topics Chemistry: X-ray Crystallography</u>	Nick Vukotic (CL with CHEM-8530)
CHEM-4832	<u>Magnetochemistry</u>	Jeremy Rawson (CL with CHEM-8832)
CHEM-4900A	<u>Research</u>	Yufeng Tong
CHEM-4908	<u>Internship Work Term II</u>	Nick Vukotic

Grad Courses

BIOC-8008-1 & -2	<u>Special Topics Bioc: Protein & Enzyme Engineering</u>	Ken Ng (CL with BIOC-3140)	R / MMB
BIOC-8008-3 & -4	<u>Special Topics Bioc: Antiviral Therapeutics</u>	Ken Ng	R / MMB
BIOC-8020	<u>Structural Proteomics and its Applications</u>	Yufeng Tong	R / MMB
CHEM-8330	<u>Synth Methods Org Chem: Heterocyclic Chemistry</u>	Jim Green (CL with CHEM-4308)	R
CHEM-8530	<u>X-ray Crystallography</u>	Nick Vukotic (CL with CHEM-4660)	R / MMCE
CHEM-8599	<u>Applications of Inorganic Spectroscopy</u>	Sam Johnson (CL with CHEM-4599)	R
CHEM-8832	<u>Magnetochemistry</u>	Jeremy Rawson (CL with CHEM-4832)	R / MMCE

MMCE-8820B	<u>Introduction to Materials Engineering & Chemistry</u>	TBA	MMCE
MMCE-8821B	<u>Materials Engineering/Chemistry Laboratory</u>	MAME: Dr. Reza Riahi	MMCE
MMCE-8905	<u>Advanced Seminar in Materials Chem & Eng</u>	Zareen Amtul	MMCE

BIOC-8700	<u>Human Physiology & Mechanisms of Disease</u>	Tranum Kaur	MMB
BIOC-8740	<u>Protein Structure and Function</u>	Zareen Amtul	MMB
BIOC-8780	<u>Biotechnology Entrepreneurship</u>	Zareen Amtul	MMB

CHEM-8900	<u>Seminar</u>	Simon Rondeau-Gagne	R (MSc & PhD)
CHEM-8970	<u>Master's Thesis</u>	Simon Rondeau-Gagne	R (MSc)

CHEM-9900	<u>Research Proposal</u>	Simon Rondeau-Gagne	R (PhD)
CHEM-9980	<u>PhD Dissertation</u>	Simon Rondeau-Gagne	R (PhD)