

CH E Department Electives 24-25

Fall 2024

CH E 126	Non-Newtonian Fluids, Soft Materials and Chemical Products	Squires, Todd
CH E 141	The Science and Engineering of Energy Conversion	McFarland, Eric
CHEM 109C	Organic Chemistry	Lewis, Robert
CHEM 115A	Physical Chemistry	Kirtman, Bernard
CHEM 142A	Biochemistry	Carlini, Andrea S.
CHEM 150	Analytical Chemistry	Svadlenak, Nathan
ECE 130A	Signal Analysis and Processing	Marden, Jason R.
ENGR 101	Ethics in Engineering	Hough, Kenneth
MATRL 100A	Structure and Properties	Harter, John A. Renuka Balakrishna, Ananya
MATRL 185 / ME 185	Materials in Engineering	Beyerlein, Irene
MCDB 101A	Molecular Genetics I: Prokaryotes	Volland, Jean-Marie Gonzalez Nino, Eduardo
MCDB 111	Human Physiology	Low, Seng
MCDB 126A	Basic Pharmacology	Azarenko, Olga
ME 112	Energy (Field of Energetics)	Matthys, Eric
ME 128	Design of Biomedical Devices	Laguet, Steve
PHYS 123A	Condensed Matter Physics	Jin, Chenhao
PHYS 127AL	Analog Electronics	Patterson, David

Winter 2025

CH E 121	Colloids and Biosurfaces	Helgeson, Matthew
CH E 146	Heterogeneous Catalysis	Christopher, Phillip
CH E 152B	Advanced Process Control	Rawlings, Jim
CH E 154	Engineering Approaches to Systems Biology	Dey, Sid
CHEM W 109C	Organic Chemistry (Online)	TBA
CHEM 115B	Fundamentals of Quantum Chemistry	TBA
CHEM 126	Computation Chemistry and Molecular Modeling	TBA
CHEM 142B	Biochemistry	TBA
ECE 130A	Signal Analysis and Processing	TBA
ECE 130B	Signal Analysis and Processing	TBA
ENGR 101	Ethics in Engineering	TBA
MATH 122A	Theory of Complex Variables	TBA
MATRL 100B	Structures and Properties II	TBA
MATRL 135	Biophysics and Biomolecular Materials	TBA
MCDB 101A	Molecular Genetics I: Prokaryotes	TBA
MCDB 101B	Molecular Genetics II: Eukaryotes	TBA
MCDB 126B	Basic Pharmacology	TBA
MCDB 133	Molecular and Cellular Immunobiology	TBA
PHYS 123B	Condensed Matter Physics	TBA
PHYS 127BL	Digital Electronics	TBA

Spring 2025

CH E 124	Advanced Topics in Transport Phenomena/Safety	Chada, Joe
CH E 160/260 / MATRL 160	Introduction to Polymer Science	Segalman, Rachel
CH E 166/289	Mechatronics and Instrumentation for Chemical Engineers	Gordon, Mike
CH E 173/272	Omnics-Enables Biotechnology	O'Malley, Michelle
CH E 174/274	Biological Systems	Mukherjee, Arnab
CHEM 109C	Organic Chemistry	TBA
CHEM 115C	Fundamentals of Quantum Chemistry	TBA
CHEM 123	Environmental Chemistry	TBA
CHEM 142C	Biochemistry	TBA
CHEM 145	Computational Biochemistry	TBA
ECE 130B	Signal Analysis and Processing	TBA
ECE 130C	Introduction to Applied Linear Algebra	TBA
ECE 183	Nonlinear Phenomena	TBA
ENGR 101	Ethics in Engineering	TBA
ENV S 105	Solar and Renewable Energy	Deshmukh, Ranjit
MATH 122B	Theory of Complex Variables	TBA
MCDB 101B	Molecular Genetics I: Eukaryotes	TBA
MCDB 111	Human Physiology	TBA
ME 110	Aerodynamics and Aeronautical Engineering	Meinhart, Carl
ME 134	Advanced Thermal Science	Matthys, Eric
ME 169	Nonlinear Phenomena	Bly, Katie
PHYS 127AL	Analog Electronics	TBA

*This course schedule is subject to change

Last updated: 7/9/24