

**21/22 AY Chemistry & Biochemistry Courses and Terms Offered
(as of August 26, 2021)**

| Course # | Course Title | Term A | Term B | Term C | Term D |
|----------|---|--------|--------|--------|--------|
| CH 1010 | Chemical Properties, Bonding, and Forces | Blue | | Green | |
| CH 1020 | Chemical Reactions | | Red | | Purple |
| CH 1030 | Kinetics, Equilibrium and Thermodynamics | | | Green | |
| CH 1040 | Spectroscopy in Organic and Polymer Chemistry | | | | Purple |
| CH 2310 | Organic Chemistry I | | Red | | |
| CH 2320 | Organic Chemistry II | | | Green | |
| CH 2330 | Organic Chemistry III | | | | Purple |
| CH 2360 | Organic Laboratory | Blue | Red | | Purple |
| CH 2640 | Experimental Chemistry I: Instrumental Analysis | Blue | | | |
| CH 2650 | Modern Physical Chemistry Methods | | Red | | |
| CH 2660 | Organic Synthesis and Analysis Laboratory | | | Green | |
| CH 2670 | Investigation of Coordination Complexes through Inquiry | | | | Purple |
| CH 3310 | Advanced Organic Chemistry (<i>offered AY 22/23</i>) | | | | |
| CH 3410 | Structure, Bonding, and Reactivity in Inorganic Chemistry | Blue | | | |
| CH 3510 | Chemical Thermodynamics | Blue | | | |
| CH352X | Fundamentals of Applying Mathematical Methods to Chemistry and Biochemistry | | | | |
| CH 3530 | Quantum Chemistry | | | Green | |
| CH 3550 | Chemical Dynamics | | Red | | |
| CH 4110 | Protein Structure and Function | Blue | | | |
| CH 4120 | Lipids and Biomembrane Functions | | | Green | |
| CH 4130 | Nucleic Acids and Bioinformation | | Red | | |
| CH 4140 | Metabolism and Disease | | | | Purple |
| CH 4150 | Enzymology and Protein Characterization Laboratory | | Red | Green | |
| CH 415X | Biophotonics | | Red | | |
| CH 4160 | Membrane Biophysics (<i>offered AY 21/22</i>) | Blue | | | |
| CH 4170 | Experimental Genetic Engineering | | | | Purple |
| CH 4190 | Regulation of Gene Expression (<i>offered AY 22/23</i>) | | | | |
| CH 4330 | Organic Synthesis (<i>offered AY 22/23</i>) | | | | |
| CH 4420 | Application of Molecular Orbital Theory to Metal Complexes | | Green | | |
| CH 4520 | Chemical Statistical Mechanics (<i>offered AY 21/22</i>) | | | | Purple |
| CH 516 | Chemical Spectroscopy | | | Green | |
| CH 536 | Theory and Applications of NMR Spectroscopy (<i>offered AY 22/23</i>) | | | | |

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|--------------|---|--------|--------|--------|--------|
| CH 538 | Medicinal Chemistry | | | | |
| CH 540 | Regulation of Gene Expression (<i>offered AY 22/23</i>) | | | | |
| CH 541 | Membrane Biophysics | | | | |
| CH 542 | Drugs in the Brain (<i>offered AY 21/22</i>) | | | | |
| CH 543 | Organometallic Chemistry and & Catalysis (<i>offered AY 22/23</i>) | | | | |
| CH 544 | Elucidation of Organic Reaction Mechanisms | | | | |
| CH 554 | Molecular Modeling | | | | |
| CH 555 – F04 | Advanced Topics – Computational Neuroscience | | | | |
| CH 555 – B02 | Advanced Topics | | | | |
| CH 555 – S02 | Advanced Topics – Drug Regulations | | | | |
| CH 555 – S04 | Advanced Topics – Neural Plasticity | | | | |
| CH 571 | Seminar | | | | |