

**Department of Chemistry and Biochemistry**  
**CSU, Fullerton**  
**Graduate and Elective Course Offerings**

<b>Graduate Courses</b>	
<b>Chemistry Concentration</b>	
<b>Courses</b>	<b>Offered</b>
CHEM 511 – <i>Advanced Analytical Chemistry</i>	Spring, even numbered years
CHEM 512 – <i>Advanced Instrumentation</i>	Spring, odd numbered years
CHEM 531 – <i>Organic Reactions and Mechanisms</i>	Spring, even numbered year
CHEM 535 – <i>Organic Synthesis</i>	Spring, odd numbered year
CHEM 537 – <i>Organic Spectroscopy</i>	Fall, even numbered year
CHEM 551 – <i>Quantum Chemistry</i>	Fall, even numbered years
CHEM 552 – <i>Kinetics and Spectroscopy</i>	Fall, odd numbered years
<b>Biochemistry Concentration</b>	
<b>Courses</b>	<b>Offered</b>
CHEM 541 – <i>Protein Biochemistry</i>	Fall, odd numbered years
CHEM 542 – <i>Nucleic Acid Chemistry</i>	Fall, even numbered years
CHEM 543 – <i>Physical Biochemistry</i>	Spring, odd numbered years
CHEM 546 – <i>Metabolism and Catalysis</i>	Spring, even years
<b>Graduate Elective Courses</b>	
<b>Chemistry Concentration</b>	
<b>Courses</b>	<b>Offered</b>
CHEM 410 - <i>Computational Chemistry</i>	Spring only
CHEM 411A – <i>Instrumental Analysis - Optical Spectroscopy</i>	Each CHEM 411 course will be offered at least once per year
CHEM 411B – <i>Instrumental Analysis - Magnetic Resonance</i>	
CHEM 411C – <i>Instrumental Analysis - Separations</i>	
CHEM 411D - <i>Instrumental Analysis - Electrochemistry</i>	
CHEM 411G – <i>Instrumental Analysis - Mass Spectroscopy</i>	
CHEM 425 – <i>Advanced Inorganic Chemistry</i>	Spring, even numbered years
CHEM 429 – <i>Medicinal Chemistry</i>	Spring only
CHEM 430 - <i>Bioorganic Chemistry</i>	Fall, even numbered year
CHEM 431 – <i>Advanced Organic Chemistry</i>	Fall, odd numbered years
CHEM 436 – <i>Atmospheric Chemistry</i>	Fall, even numbered years
CHEM 439 – <i>Green Chemistry</i>	Spring, even numbered years
<b>Biochemistry Concentration</b>	
<b>Courses</b>	<b>Offered</b>
CHEM 438 - <i>Environmental Biochemistry</i>	Fall, odd numbered years
CHEM 445 – <i>Nutritional Biochemistry</i>	Fall, even numbered years
CHEM 472B - <i>Advances in Biotechnology laboratory</i>	Spring only