

**University College Dublin (UCD) Approved
Chemistry/Biochemistry Requirements**

Notre Dame Course Number/Name	UCD Course Number/Name
CHEM 30321 -Physical Chemistry I (Approved for biochemistry majors only)	CHEM 30060 -Quantum Mechanics and Molecular Spectroscopy
CHEM 30322 -Physical Chemistry II	CHEM 30290 -Chemical Thermodynamics and Physical Chemistry OR CHEM 30080 -Thermodynamics and Reaction Kinetics
CHEM 30333 -Analytical Chemistry	CHEM 30110 -Instrumental Analysis
CHEM 30342 -Intermediary Metabolism	BMOL 20050 -Metabolic Biochemistry OR BIOC 20020 -Machinery of Life
CHEM 40434 -Physical Methods in Chemistry	CHEM 30230 -Symmetry and Spectroscopy
CHEM 48498 -Undergraduate Research	SCI 30010 -Introduction to Scientific Research
CHEM 50531 -Molecular Biology I	BMOL 30030 -Regulation of Gene Expression OR BMOL 20090 -Molecular Genetics and Biotechnology
BIOS 20303 -Fundamentals of Genetics	GENE 30010 -Genetics and Recombinant DNA OR GENE 20010 -Plant and Animal Genetics
BIOS 30341 -Cell Biology	CELB 30090 -Advanced Cell Biology OR CELB 20040 -Cell and Molecular Biology -Principles OR CELB 20010 -Cell Biology OR CELB 30070 -Cell Biology

Note: Some of the courses do contain a lab component but are only 3 credits. You will simply need to make up the science credit with research or other science course at ND.