

APPROVED TECHNICAL ELECTIVES FOR THE CWRU BIOCHEMISTRY MAJOR

BIOC 310	Microbial Physiology and Therapeutic Opportunities	
BIOC 311	Antimicrobial Therapies and Resistance	
BIOC 312*	Proteins and Enzymes	
BIOC 315	Biological Membranes and Their Proteins	
BIOC 334*	Structural and Computational Biology	(revised title pending)
BIOC 344	Molecular Endocrinology	
BIOC 345	Metabolic Dysregulation and Human Disease	
BIOC 350	Molecular Basis of Cancer	
BIOC 353	Biochemical Pathways in Cancer Therapeutics	
BIOC 354	Biochemistry and Biology of RNA	
BIOC 360	Advanced Technologies for Cancer Research	
BIOC 501	Biochemical and Cellular Techniques for Biotechnology	
ANAT 391	Embryology	
BIOL 300	Dynamics of Biological Systems	
BIOL 301	Biotechnology Laboratory	
BIOL 306	Mathematical Analysis of Biological Models	
BIOL 316	Fundamental Immunology (4)	
BIOL 319	Applied Probability and Stochastic Processes for Biology	
BIOL 325	Cell Biology	
BIOL 326	Genetics	
BIOL 328	Plant Genomics and Proteomics	
BIOL 340	Human Physiology	
BIOL 343	Microbiology	
BIOL 346	Human Anatomy	
BIOL 362	Principles of Developmental Biology	
BIOL 373	Introduction to Neurobiology	
BIOL 402	Principles of Neural Science	
CHEM 302	Introductory Physical Chemistry II	
CHEM 304	Quantitative Analysis Laboratory (2)	
CHEM 305	Introductory Physical Chemistry Lab	
CHEM 311	Inorganic Chemistry I	
CHEM 325	Physical Methods for Determining Organic Structure	
CHEM 331	Laboratory Methods in Inorganic Chemistry	
CHEM 421	Advanced Organic Chemistry I	
ECHE 340	Biochemical Engineering	
MATH 376	Mathematical Analysis of Biological Models	
MBIO 450	Cells and Pathogens	
MPHP 464	Obesity and Cancer	
NTRN 434	Advanced Human Nutrition II	
PATH 444	Neurodegenerative Diseases	
PHOL 466	Cell Signaling	
PHOL 514	Cardiovascular Physiology	
PHRM 309	Principles of Pharmacology	
PHYS 320	Introduction to Biological Physics	

* For BA students taking both BIOC 312 and BIOC 334, one can serve as a technical elective.