

**TECHNICAL ELECTIVES for the BIOCHEMISTRY MAJOR at CWRU  
FALL SEMESTER**

BIOC 312	Proteins and enzymes (3)
BIOC 452	Nutritional Biochemistry (3)
BIOL 301	Biotechnology laboratory- genes and genetic engineering (3)
BIOL 306	Dynamics of Biological Systems II (3)
BIOL 325	Cell Biology (3)
BIOL 326	Genetics (3)
BIOC 334	Structural Biology (3)
BIOL 346	Human Anatomy (3)
BIOL 362	Principles of developmental biology (3)
BIOL 373	Introduction to neurobiology (3)
BIOL 374	Neurobiology of Behavior (3)
CHEM 304	Chemical Measurements Laboratory (3)
CHEM 311	Inorganic Chemistry I
CHEM 331	Laboratory methods and techniques III (3)
ECHE 381	Electrochemical Engineering
NTRN 328	Child Development and Health (3)
NTRN 452	Nutritional Biochemistry and Metabolism (3)
PHRM 309	Principles of Pharmacology
PHOL 468	Membrane Physiology I (3)

Notes to students:

1. Check the Bulletin for prerequisites and the course schedule for availability.
2. Most graduate courses require the consent of the instructor. Discuss your desire to take a course with your adviser and the course instructor before registration.

**BIOCHEMISTRY TECHNICAL ELECTIVES  
SPRING SEMESTER**

ANAT 312 BASIC HISTOLOGY  
ANAT 411 GROSS ANATOMY  
ANAT 491 EMBRYOLOGY  
ANAT 610 Oxygen and its Physiological Function

BIOC 334 STRUCTURAL BIOLOGY  
BIOC 519 MOLECULAR BIOLOGY OF RNA  
BIOC 599 RNA STRUCTURE AND FUNCTION

BIOL 300 DYNAMICS OF BIOLOGICAL SYSTEMS  
BIOL 316 FUNDAMENTAL IMMUNOLOGY  
BIOL 319 BIOLOGICAL STOCHASTIC PROCESS  
BIOL 328 PLANT GENOMICS AND PROTEOMICS  
BIOL 333 THE HUMAN MICROBIOME  
BIOL 340 HUMAN PHYSIOLOGY  
BIOL 342 PARASITOLOGY  
BIOL 343 MICROBIOLOGY  
BIOL 363 EXPERIMENTAL DEVELOPMENTAL BIOLOGY  
BIOL 378/NEUR 478 COMPUTATIONAL NEUROSCIENCE  
BIOL 402 NEUROSCIENCES

CHEM 302 INTRO PHYSICAL CHEMISTRY II  
CHEM 305 INTRO PHYSICAL CHEM LAB  
CHEM 325 PHYS METH FOR DETERM ORG STRUC  
CHEM 333 MEDICINAL CHEMISTRY & DRUG DEVELOPMENT  
CHEM 329 CHEM ASPECTS OF LIVING SYSTEMS  
CHEM 421 ADVANCED ORGANIC CHEMISTRY

ECHE 340 BIOCHEMICAL ENGINEERING  
EECS 359 BIOINFORMATICS IN PRACTICE  
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

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