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 MEDICINAL CHEMISTRY & DRUG DEVELOPMENT
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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