

Biochemistry Tentative Schedule of Course Offerings

Course #	Course Name	Prerequisite	Fall	Winter	Spring	Summer
BCH 010	Introduction to Nutrition	None	X	X	X	X
BCH 015	Introductory Biochemistry Laboratory	CHEM 008A/ CHEM 08LA (minimum grade C- or concurrent enrollment)	X	X		X
BCH 095	Topics in Biochemistry for Career Planning	First time Freshman Biochemistry major	X			
BCH 096	Introduction to Humanitarian and Healthcare Service	BCH major with an emphasis in MDSC		X		
BCH 097	Research Tutorial in Biochemistry	Lower division standing, min. GPA of 3.5 and approval from advisor and instructor	X	X	X	
BCH 098-I	Individual Internship in a Humanitarian or Healthcare Arena	Major in BCH, Medical Sciences concentration, and BCH 096	X	X	X	
BCH 100	Introductory Biochemistry	BIOL 005A and CHEM 008B/ CHEM 08LB (minimum grade C-)	X	X	X	X
BCH 110A	General Biochemistry	BIOL 005A and CHEM 008C/ CHEM 08LC (minimum grade C-)	X	X		
BCH 110B	General Biochemistry	BCH 110A (minimum grade C-)		X	X	
BCH 110C	General Biochemistry	BCH 110A (minimum grade C-) and BIOL 102. BCH 110B is highly recommended		X	X	
BCH 120	Topics in Human Biochemistry	BCH 100 (C+ grade) or BCH 110B (C-grade)	X		X	
BCH 162	Advanced Biochemistry Laboratory	BCH 15 and BCH 110B and BCH 110C (minimum grade C-) BCH 110C may be taken concurrently		X	X	
BCH 179	RNA Organization	BCH 110A or BCH 110HA, or BIOL 107A, or CBNS 101 (minimum grade C-) or consent of instructor			X	

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BCH 180 (E-Z)	Advanced Methods in Biochemistry	Upper-Division standing and concurrent enrollment in BCH 197 or BCH 110C or BIOL 107A (minimum grade C-)	BCH 180E Gene Regulation	BCH 180R Epigenetics		
BCH 181	Bioanalytical Concepts for Experimental Systems Biology	BCH 100/ BCH 100H, or BCH 110B/ BCH 110HB (minimum grade C-)	X			
BCH 183	Plant Biochemistry and Pharmacology of Plant Metabolites	BCH 110A and BCH 110B or BCH 100		X		X
BCH 184	Topics in Physical Biochemistry	BCH 100 or BCH 110A and CHEM 109 or CHEM 110A or BIEN 135 (minimum grade C-)		X	X	
BCH 185	Epigenetics In Development and Disease	BCH 110C or BIOL 107A (minimum grade C-)	X			
BCH 186	Molecular Bioenergetics	BCH 100 or BCH 110B and BCH 184 (minimum grade C-)				
BCH 187	Fundamentals of Enzymology	BCH 100 or BCH 110A (minimum grade C-)			X	
BCH 188	Fundamentals of Genomics Technologies	BCH 110C or BIOL 107A (minimum grade C-) or BCH 110HC (minimum grade B-)		X		
BCH 189	Advanced Analysis of Biochemical Methods	Senior standing in a BCH major, concurrent enrollment in BCH 162, and consent of instructor				
BCH 190	Special Studies	Upper-Division standing and consent of instructor	X	X	X	
BCH 197	Research for Undergraduate Students	Junior status and consent of the instructor	X	X	X	
BCH 198-I	Internship in Biochemistry	BCH 015, consent of instructor and upper-division standing		X	X	
BIOL 102	Introductory Genetics	BIOL 005B (minimum grade C-)	X	X	X	X

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BIOL 119	Introduction to Genomics and Bioinformatics	BIOL 005C, BIOL 102, BCH 100 or BCH 110A, MATH 007B or MATH 009B, PHYS 002C/02LC	X	X		
BIOL 121	Introduction to Microbiology	BIOL005C, CHEM 001C/CHEM 01LC, MATH 007B or MATH 009B, PHYS 002A/02LA, BCH 100 or BCH 110A and STAT 010	X	X	X	X
BIOL 121L	Microbiology Laboratory	BIOL 121 or MCBL 121	X	X	X	
BIOL 128	Immunology	BIOL 005C, PHYS 002C / 02LC, BCH 100 or BCH 110A	X		X	X
BIOL 171A	Human Anatomy	BIOL 005C, CHEM 001C/ CHEM 01LC, CHEM 008B / CHEM 08LB, MATH 007B or MATH 009B, PHYS 002B / PHYS 02LB	X			X
BIOL 171B	Human Physiology 1	BIOL005C, CHEM 001C/CHEM 01LC, CHEM 008C/CHEM 08LC, MATH 007B or MATH 009B, PHYS 002B/02LB, BCH 100 or BCH 110A and STAT 010		X		X
BIOL 171C	Human Physiology 2	BIOL 171B			X	
CBNS 101	Fundamentals of Cell Biology	CHEM 008C/ CHEM 08LC, BCH 100 or BCH 110A (concurrent enrollment okay)		X	X	X
CBNS 106	Introduction to Neuroscience	BIOL 005A, BIOL 005B, CHEM 001C	X	X	X	X
CBNS 150	Cancer Biology	BCH 110C or BIOL 107A or CBNS 101			X	
CBNS 165	Stem Cell Biology	CBNS 101		X		X

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CHEM 005	Quantitative Analysis	CHEM 001C and CHEM 01LC or CHEM 002C and CHEM 02LC (minimum grade C-)		X		X
CHEM 109	Survey of Physical Chemistry	CHEM 001C/ CHEM 01LC and MATH 007B or MATH 009B (minimum grade C-)	X			X
CHEM 110A	Physical Chemistry: Chemical Thermodynamics	CHEM 001C/ CHEM01LC, MATH 009C (minimum grade C-) or MATH 10A (minimum grade C- or concurrent enrollment okay), PHYS 002C / PHYS 02LC (minumum grade C-) or PHYS 40C (minimum grade C- or concurrent enrollment okay)	X			
CHEM 110B	Physical Chemistry: Intro to Statistical Mechanics and Kinetics	CHEM 110A (minimum grade C-) MATH 010B recommended		X		
CHEM 113	Physical Chemistry: Intro to Quantum Chemistry	CHEM001C/01LC or CHEM 002C/02LC and MATH 009C and MATH 010A and PHYS 002C or PHYS 040C (minimum grade C-)			X	
CHEM 125	Instrumental Methods	CHEM 005 (minimum grade C-) PHYS 002C or PHYS 40C (may be taken concurrently)	X			
CHEM 150A	Inorganic Chemistry	CHEM 008B and CHEM 08LB (minimum grade C-)		X		X
CHEM 150B	Inorganic Chemistry	CHEM 150A (minimum grade C-)			X	
CHEM 155	Advanced Inorganic Chemistry: Synthesis and Methods	CHEM 150A (minimum grade C-)			X	
CHEM 166	Advance Organic Chemistry: Synthesis and Methods	BCH 162 or CHEM 005 and CHEM 008C/ CHEM 08LC (minimum grade C-)	X			