

BIOCHEMISTRY (BIC)

BIC 580 Special Topics	1-4 Credit hours	BIC 720 Biochemistry	7 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
BIC 620 Human Biochemistry	6 Credit hours	BIC 780 Elective Special Projects	1-18 Credit hours
A study of structure and metabolism of biological compounds with special reference to the human.		Grade Mode: Pass/Fail Grading Mode	
Grade Mode: Normal Grading Mode		BIC 785 Independent Study	1-15 Credit hours
BIC 621 Human BIC Discussion	1 Credit hour	Grade Mode: Credit/No Credit Grade Only	
Co-requisite weekly discussion group for Human Biochemistry. Selected topics from the lecture course will be covered in greater depth.		BIC 820 Biochemistry Research	1-18 Credit hours
Co-req: BIC 620		Grade Mode: Pass/Fail Grading Mode	
Grade Mode: Credit/No Credit Grade Only			
BIC 628 Mol Mech Growth & Diff	2 Credit hours		
Advanced graduate course will acquaint students with the latest information on control of cell growth and differentiation at the molecular level. Lecture and student presentations. A short grant proposal is also required. (PR: BMS 600)			
Pre-req: BMS 600.			
Grade Mode: Normal Grading Mode			
BIC 634 Lipid Biochemistry	2 Credit hours		
Advanced study of lipid structure and metabolism.			
Grade Mode: Normal Grading Mode			
BIC 636 Enzymology and Proteins	3 Credit hours		
Structure and function of enzymes and proteins, including proteomics, purification, assay, kinetics, molecular chaperones, protein degradation, engineering, and current literature concerning enzymes important in the cell cycle and gene regulation. PR: Biochemistry and consent			
Grade Mode: Normal Grading Mode			
BIC 638 Nucleic Acid Protein Syn	3 Credit hours		
An advanced course in molecular biology and molecular genetics emphasizing current research in these areas.			
Pre-req: BIC 620.			
Grade Mode: Normal Grading Mode			
BIC 643 Molecular Signal Transduction	3 Credit hours		
An advanced exploration of the newest information on cellular signalling pathways. Special emphasis will be place on current literature in following signal transduction from the plasma membrane to the nucleus. (PR: BMS 600 or equivalent)			
Grade Mode: Normal Grading Mode			
BIC 675 Special Topics	1-4 Credit hours		
Present course material on special areas of research or topics which are not routinely covered in existing courses.			
Grade Mode: Normal Grading Mode			
BIC 676 Special Topics	1-4 Credit hours		
Present course material on special areas of research or topics which are not routinely covered in existing courses.			
Grade Mode: Normal Grading Mode			
BIC 677 Special Topics	1-4 Credit hours		
Present course material on special areas of research or topics which are not routinely covered in existing courses.			
Grade Mode: Normal Grading Mode			