DEPARTMENT OF BIOCHEMISTRY

MASTER OF SCIENCE WITH SPECIALTY IN BIOCHEMISTRY (M.S.)

TOTAL CREDIT-HOURS: 33 First Year: 24 Credit-Hours

BCHM 8500	Biochemistry	6
BCHM 8551	Methods in Protein and	
	Nucleic Acid Biochemistry	2
BCHM 8552	Methods in Lipid and	
	Carbohydrates Biochemistry,	
	Nutrition, and Biochemical	
	Pharmacology	2
BCHM 8531	Research Seminar Series I	1
CBIO 8500	Statistics for the Biomedical	
	Sciences	3
BCHM 8532	Research Seminar Series II	1
BCHM 8507	Special Biomedical Laboratory	
	Techniques I	
	or Elective Recommended by	
	the Department	3
BCHM 8504	Biochemistry of Proteins	3
BCHM 8502	Molecular Biology or	
	Equivalent Molecular	
	Biology Course Recommended	
	by the Department	3

Second Year: 9 Credit-Hours

BCHM 8595 Research for Master's
Thesis 6
Electives 3

MASTER OF SCIENCE WITH SPECIALTY IN BIOCHEMISTRY WITHOUT THESIS (M.S.)

TOTAL CREDIT-HOURS: 37 First Year: 14 Credit-Hours

BCHM 8500	Biochemistry	6
BCHM 8551	Methods in Protein and	
	Nucleic Acid Biochemistry	2
BCHM 8552	Methods in Lipid and	

	Carbohydrates Biochemistry, Nutrition, and Biochemical Pharmacology	2		
CBIO 8500	Statistics for the Biomedical	_		
0010 0000	Sciences	3		
BCHM 8995	DOE-I	1		
Second Year: 14 Credit-Hours				
BCHM 8517	Physical Chemistry of			
	Macromolecules (Enzyme			
	Reaction Mechanism)	3		
BCHM 8504	Biochemistry of Proteins	3		
BCHM 8995	DOE-II	1		
BCHM 8502	Molecular Biology	3		
BCHM 8515	Enzyme Kinetics and			
	Mechanism	2		
BCHM 8995	RSM	1		
BCHM 8995	QA	1		
Third Year: 9 Credit-Hours				
BCHM 8526	Proposal	3		
BCHM 857	•	6		

DOCTOR OF PHILOSOPHY WITH SPECIALTY IN BIOCHEMISTRY (PH.D.)

TOTAL CREDIT-HOURS: 63 First Year: 24 Credit-Hours

BCHM 8500	Biochemistry	6
BCHM 8551	Methods In Protein and	
	Nucleic Acid Biochemistry	2
BCHM 8552	Methods in Lipid and	
	Carbohydrates Biochemistry,	
	Nutrition, and Biochemical	
	Pharmacology	2
BCHM 8531	Research Seminar Series I	1
CBIO 8500	Statistics for the Biomedical	
	Sciences	3
BCHM 8532	Research Seminar Series II	1
BCHM 8504	Biochemistry of Proteins	3
BCHM 8502	Molecular Biology	3

BCHM 8507	Special Biomedical Laboratory Techniques I or Elective Recommended by The Department	3	
Second Year: 21 Credit-Hours			
BCHM 8533 BCHM 8515	Research Seminar Series III Enzyme Kinetics and	1	
BCHM 8517	Mechanism Physical Chemistry of	2	
DOTINI GOT7	Macromolecules (Enzyme		
	Reaction Mechanism)	3	
BCHM 8534	Research Seminar Series IV	1	
BCHM 8525	Recent Advances in		
	Biochemistry and Molecular		
	Biology	2	
BCHM 8530	Regulation of Gene		
	Expression in Eucaryotes	3	
BCHM 8526	Proposal	3	
Electives Recommended by the Department		3	
Electives		3	
Third and Fourth Years: 18 Credit-Hours			
BCHM 8526	Special Topics in Biochemistry (Thesis Proposal and		
	Comprehensive Examination)	3	
BCHM 8599	Research for Doctoral Thesis	15	