



B.S. in Biochemistry
BIOCHEMBS.2015 (mrs 632)
62 credits, incl. 12 GE credits

Effective Date: 08/2015

Name of Student:		
Student ID #:		Graduation Date
Home Country:	<input type="checkbox"/> IWORK	
Advisor:	Name	Date

Science Core **15 Credits**

Course #	Title	Hr.	Prerequisites	Offered	Sem.	Grade
BIOL 112	Biology for Majors (GenEd)	3		F, W, S		
CHEM 105/L	General Chemistry I/Lab (GenEd -3)	4	MATH 110	W, S		/
CHEM 106/L	General Chemistry II/Lab	4	CHEM 105/L	F, S		/
BIOL 265/L	Molecular & Cell Biology	4	BIOL 112, CHEM 105/L	F, W, S		/

Chemistry Core **24 Credits**

CHEM 251/L	Organic Chemistry I/Lab	4	CHEM 106/L	W		/
CHEM 252/L	Organic Chemistry II/Lab	4	CHEM 251/L	S		/
CHEM 326/L	Analytical Biochemistry/Lab	4	CHEM 106/L	F		/
CHEM 381/L	Biochemistry I/Lab	4	CHEM 252/L, BIOL 265/L	F, W		/
CHEM 382/L	Biochemistry II/Lab	4	CHEM 381/L	W, S		/
CHEM 468/L	Physical Biochemistry/Lab	4	CHEM 381/L, PHYS 121	W		/

Chemistry Electives **3 Credits**
Select 3 credits from list

CHEM 295	Organic Spectroscopy	3	CHEM 252/L	F-even		
CHEM 350	Advanced Organic Synthesis	3	CHEM 252/L	F-odd		
CHEM 370	Inorganic Chemistry	3	CHEM 106/L	Variable		

Senior Research **4 Credits**

CHEM 491	Undergrad Research (GenEd)	1	Completion or concurrent enrollment in CHEM 252	F		
CHEM 492-4	Undergrad Research (GenEd)	3	CHEM 491	S		

Required Supporting Biology Course **4 Credits**

BIOL 441/L	Advanced Molecular Biology/Lab	4	Science Core	W		/
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Biology Electives **4 Credits**
Select 4 credits from list

BIOL 320/L	Pathogenic Microbiology	4	Science Core and BIOL 220/L	S-even		
BIOL 330/L	Bioinformatics	4	Science Core	S-odd		/
BIOL 376/L	Genetics/Lab	4	½ Science Core	F,S		
BIOL 442/L	Advanced Cellular Biology	4	Science Core	S		
BIOL 445/L	Immunology	4	Science Core	F		/
BIOL 465/L	Principles of Physiology/Lab	4	Science Core	W		/

Required Physics Courses **8 Credits**
Take PHYS 121/L and PHYS 122/L or PHYS 221/L

PHYS 121/L	General Physics I (GenEd - 3)	4	MATH 112	F, S		/
PHYS 122/L or PHYS 221/L	General Physics II	4	PHYS 121/L	F, S		/
	General Physics III		PHYS 121/L	W		/

Recommended Course for Graduate School Prerequisites and Entrance Exams Preparation

MATH 113	Calculus II (GenEd)	5	MATH 112	F, W		
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Total Credits Mapped for Graduation:

- To graduate with a major in Biochemistry, a student cannot have a grade lower than C- in a major course.
- Only one major course can be repeated* without department permission. If after a repeat the achieved grade is still lower than C-, a student will not be able to continue in the Biochemistry major.
- If a second or third major course is failed, a repeat* may be permitted only with authorization from the Department Chair, or the Department Chair and the Dean respectively.
- Students with four or more major courses failed will not be able to continue in the Biochemistry major.
 * Repeat because of a grade lower than C-

Note: Anatomy & microbiology may be required for prerequisites for some professional programs.

The terms of this MRS will be honored by the Department and University within the next 8 years. If courses cease to be offered, options for substitution will be provided.