



**B.S. in Biochemistry**  
**BIOCHEMBS.2017 (mrs 1207)**  
**61 credits**

Effective Date: 11/2016

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

**Science Core Requirements** **12 Credits**

Course #	Title	Hr.	Prerequisites	Offered	Sem.	Grade
BIOL 112/L	Biology I – Cell and Molecular Biology/Lab	4		F,W,S		/
CHEM 105/L	General Chemistry I/Lab	4	MATH 110 w/C- or better, or ACT Math score higher than 22 or SAT Math score higher than 520. (High School Chemistry or CHEM 101 highly recommended)	F,W		/
CHEM 106/L	General Chemistry II/Lab	4	CHEM 105/L w/C- or better	W,S		/

**Major Core Requirements** **40 Credits**

CHEM 201	Chemical and Laboratory Safety	1	CHEM 105/L	F,W,S		/
CHEM 326/L	Analytical Biochemistry/Lab	4	CHEM 106/L, CHEM 201 (co- or prerequisite)	F		/
CHEM 351/L	Organic Chemistry I/Lab	4	CHEM 106/L, CHEM 201 (co- or prerequisite)	F		/
CHEM 352/L	Organic Chemistry II/Lab	4	CHEM 351/L	W		/
CHEM 381/L	Biochemistry I/Lab	4	BIOL 112/L, CHEM 352/L, (completion of BIOL 376 or 441 is strongly recommended)	F, S		/
CHEM 382/L	Biochemistry II/Lab	4	CHEM 381/L	W		/
CHEM 468	Physical Biochemistry	3	CHEM 381/L, PHYS 121; (completion of PHYS 221 is recommended)	S		/
CHEM 491	Undergraduate Research	1	CHEM 352/L (completion of CHEM 381 is recommended)	F		/
CHEM 492-4	Undergraduate Research	3	CHEM 491	W-W-S		/
BIOL 441/L	Molecular Biology/Lab	4	BIOL 112/L, CHEM 106/L (completion of BIOL 220 or 376 is strongly recommended)	F		/
PHYS 121/L	General Physics I/Lab	4	MATH 112 and either High School Trigonometry or MATH 111	F,W		/
PHYS 220/L or PHYS 221/L	General Physics II/Lab General Physics III/Lab	4	PHYS 121/L, (Completion of MATH 113 is recommended)	F,W S		/

**Chemistry Elective – Choose One** **3 Credits**

CHEM 395	Organic Spectroscopy	3	CHEM 352/L	S-odd		/
CHEM 450	Advanced Organic Synthesis	3	CHEM 352/L	S-even		/
CHEM 370	Inorganic Chemistry	3	CHEM 106/L	Variable		/

**Biology Electives** **minimum 6 Credits**

BIOL 220/L	Microbiology/Lab	4	BIOL 112/L, CHEM 105/L	S		/
BIOL 260/L	Elementary Human Anatomy/Lab	3	BIOL 113, CHEM 105/L	W		/
BIOL 261/L	Elementary Human Physiology/Lab	4	BIOL 113, CHEM 105/L	F		/
BIOL 340 or MATH 221	Biostatistics	3	BIOL 113, CHEM 105/L	W		/
	Principles of Statistics		MATH 107 or 110	F,W,S		
BIOL 376/L	Genetics/Lab	4	BIOL 113, CHEM 105/L	F,W		/
BIOL 442/L	Cellular Biology/Lab	4	BIOL 112/L, CHEM 106/L (completion of BIOL 376 is strongly recommended)	W		/
BIOL 460	Advanced Human Anatomy	3	BIOL 260/L, Permission of Instructor	F		/
BIOL 465/L	Principles of Physiology/Lab	4	BIOL 113, CHEM 106/L	F		/

**Total Credits Mapped for Graduation:**

**Grade policy**

- To graduate with a major in Biochemistry, a student cannot have a grade lower than C- in a core course and can only repeat\* up to three courses in the major.
- One repeat\* is allowed per major course. If after a repeat the grade is still lower than C-, a student will not be able to continue in the Biochemistry major (for an exception, see 5).
- A repeat\* of a second major course would be permitted only with the authorization from the department chair.
- A repeat\* of a third major course would be permitted only with authorizations from the department chair and the dean.
- A student may have a D grade in one major elective course.

\* Repeat because of a grade lower than C-