



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

Effective Date: 11/2016

Name of Student:		
Student ID #:		Graduation Date
Home Country:	<input type="checkbox"/> IWORK	
Advisor:	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 101 (or equivalent) w/C- or better and concurrent enrollment in MATH 110, or MATH 110 w/C- or better, or ACT Math score higher than 22 or SAT Math score higher than 520. (<i>High School Chemistry or CHEM 101 highly recommended</i>)	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 351/L, (<i>completion of BIOL 376 or 441 is strongly recommended</i>)	F, S		/
CHEM 382/L	Biochemistry II/Lab	4	CHEM 381/L	W		/
CHEM 468	Physical Biochemistry	3	CHEM 381/L, PHYS 121; (<i>completion of PHYS 221 is recommended</i>)	W		/
CHEM 491	Undergraduate Research	1	CHEM 351/L (<i>completion of CHEM 326/L or 381/L is recommended</i>)	S		/
CHEM 492-4	Undergraduate Research	3	CHEM 491	F-F-W		/
BIOL 441/L	Molecular Biology/Lab	4	BIOL 112/L, CHEM 106/L, (<i>completion of BIOL 220 or 376 is strongly recommended</i>)	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, (<i>Completion of MATH 113 is recommended</i>)	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 (<i>completion of BIOL 376 is strongly recommended</i>)	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

All students majoring in Biochemistry are expected to achieve a grade of C- or higher in their major courses. However, we will allow D grades as passing in courses which are NOT a prerequisite for another course (CHEM 201, 326, 352, 370, 382, 395, 450, 468, BIOL 441 and BIOL electives), and as long as the number of credits from D grades is at least or less than the allowed maximum (12 credits), as outlined by the BYU-Hawaii policy for graduation requirements.