

DEGREE GUIDE FOR THE COLLEGE OF ARTS AND SCIENCES

B.S.: BIOCHEMISTRY -- 2009-2011

Note: of the 128 credits required for graduation, students must earn at least 104 within Arts and Sciences departments.

B.S. – BIOCHEMISTRY -- 71 Credits

Thought and Expression		GRD	7.0
ENGL 101 English Composition	3	[]	
PHIL 101 Critical Thinking	2	[]	
SPCO 101 Intro to Speech Comm	2	[]	

Religious Studies		GRD	9.0
RELI 100 Level Course	3	[]	
RELI 200 Level Course	3	[]	
RELI 300 Level Course	3	[]	

Philosophy		GRD	9.0
PHIL 201 Human Nature	3	[]	
PHIL 301 Ethics	3	[]	
PHIL 400 Level Course	3	[]	

English		GRD	6.0
ENGL 102, 103H, 105 or 106	3	[]	
ENGL 201 – 285	3	[]	

Fine Arts		GRD	3.0
(P)	3	[]	

Fine Arts Course must have "P" designation

Foreign Language/Culture		GRD	3.0
(FC)	3	[]	

Foreign Language/Culture Course must have "FC" designation

History (choice of 2)*		GRD	6.0
HIST	3	[]	
HIST	3	[]	

HIST 101 and either 102 or 112 in the first year. If unable to complete all six 100-level HIST credits in the first year, HIST 201 or 202 may be substituted for ONE 100-level course after the first year. (NO upper division can substitute.)

Social Science		GRD	6.0
CRIM 101, ECON, SOCI, POLS or PSYC	3	[]	
	3	[]	

Math/Lab Science/Elective		GRD	10.0
Math**	3	[]	
Lab Science	4	[]	
Elective**	3	[]	

**MATH 100 level or above (or ITEC for elective)

Social Justice		GRD	3.0
(J)	3	[]	

Social Justice Course must have "J" designation

TOTAL CORE CREDIT **62**

Electives:

_____	[]	
_____	[]	
_____	[]	

MAJOR LOWER DIVISION 41 credits

CRSE	CRSE Title	GRD
CHEM 101	General Chemistry	3 []
CHEM 101L	General Chemistry Lab	1 []
CHEM 206	Inorganic Chemistry	3 []
CHEM 206L	Inorganic Chemistry Lab	1 []
CHEM 230	Organic Chemistry I	4 []
CHEM 230L	Organic Chemistry I Lab	1 []
BIOL 101	Diversity of Life	3 []
BIOL 101L	Diversity of Life Lab	1 []
BIOL 201	Cellular Biology	3 []
BIOL 201L	Cellular Biology Lab	1 []
BIOL 202	Genetics & Evolution	3 []
BIOL 202L	Genetics & Evolution Lab	1 []
MATH 157	Calc & Analy Geometry I	4 []
MATH 258	Calc & Analy Geometry II	4 []
PHYS 103	Scientific Physics I	3 []
PHYS 103L	Scientific Physics I Lab	1 []
PHYS 204	Scientific Physics II	3 []
PHYS 204L	Scientific Physics II Lab	1 []

MAJOR UPPER DIVISION 30 credits

CRSE	CRSE Title	GRD
CHEM 310	Quantitative Analysis	3 []
CHEM 310L	Quantitative Analysis Lab	2 []
CHEM 331	Organic Chemistry II	3 []
CHEM 331L	Organic Chemistry II Lab	1 []
CHEM 440	Biochemistry I	3 []
CHEM 443	Biochemistry I Lab	2 []
CHEM 445	Biochemistry II	3 []
BIOL 456	Molecular Biology	3 []
BIOL 456L	Molecular Biology Lab	2 []
CHEM 471	Chemical Bibliography	1 []
CHEM 485	Seminar	1 []
CHEM 486	Seminar	1 []
CHEM 498A	Thesis	1 []
CHEM 498B	Thesis	1 []

Either of the following:

CHEM 450	Biophysical Chemistry	3 []
OR		
CHEM 320	Physical Chemistry I	3 []
AND		
CHEM 321	Physical Chemistry II	3 []

BS degree in Biochemistry
[71 credits required for major (including supporting courses); 128 total credits]

	FALL		SPRING	
Freshman	CHEM 101	3	CHEM 230	4
	CHEM 101L	1	CHEM 230L	1
	BIOL 101	3	MATH 258	4
	BIOL 101L	1	SPCO 101	2
	⁽¹⁾ MATH 157	4	PHIL 101	2
	ENGL 101	3	⁽²⁾ CORE	3
		15		16
Sophomore	CHEM 206	3	CHEM 310	3
	CHEM 206L	1	CHEM 310L	2
	CHEM 331	3	BIOL 202	3
	CHEM 331L	1	BIOL 202L	1
	BIOL 201	3	CORE	3
	BIOL 201L	1	CORE	3
	⁽³⁾ CORE	3	CORE	3
	15		18	
Junior	CHEM 440	3	CHEM 445	3
	PHYS 103	3	CHEM 443	2
	PHYS 103L	1	PHYS 204	3
	CORE	3	PHYS 204L	1
	CORE	3	CHEM 471	1
	CORE	3	CORE	3
		3	CORE	3
	16		16	
Senior	⁽⁴⁾ CHEM 320 or CORE	3	⁽⁴⁾ CHEM 321 or 450	3
	BIOL 456	3	CHEM 486	1
	BIOL 456L	2	CHEM 498B	1
	CHEM 485	1	CORE	3
	CHEM 498A	1	CORE	3
	CORE	3	CORE	3
	CORE	3	CORE	3
	16		17	

NOTES:

1. MATH 157 and CHEM 440 are prerequisites for CHEM 450
2. CORE refers to University core requirements (other than T/E, Math, and science) and other electives.
3. MATH 259 and MATH 260 are recommended core electives for BS students.
4. Students must take either CHEM 320/321 or CHEM 450.