

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
<u>ENGL 101 English Composition</u>	3	[]
<u>PHIL 101 Critical Thinking</u>	2	[]
<u>SPCO 101 Intro to Speech Comm</u>	2	[]

Religious Studies	GRD	9.0
<u>RELI 100 Level Course</u>	3	[]
<u>RELI 200 Level Course</u>	3	[]
<u>RELI 300 Level Course</u>	3	[]

Philosophy	GRD	9.0
<u>PHIL 201 Human Nature</u>	3	[]
<u>PHIL 301 Ethics</u>	3	[]
<u>PHIL 400 Level Course</u>	3	[]

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

Fine Arts	GRD	3.0
<u>(P)</u>	3	[]

Fine Arts Course must have "P" designation

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

Foreign Language/Culture Course must have "FC" designation

History (choice of 2)*	GRD	6.0
<u>HIST</u>	3	[]
<u>HIST</u>	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
<u>CRIM 101, ECON, SOCI, POLS or PSYC</u>	3	[]
<u>_____</u>	3	[]

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

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

Social Justice	GRD	3.0
<u>(J)</u>	3	[]

Social Justice Course must have "J" designation

TOTAL CORE CREDIT **62**_____

Electives:

	[]	[]
	[]	[]
	[]	[]

MAJOR LOWER DIVISION **41 credits**

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

MAJOR UPPER DIVISION **30 credits**

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

Either of the following:

<u>CHEM 450</u>	<u>Biophysical Chemistry</u>	3 []
-----------------	------------------------------	-------

OR

<u>CHEM 320</u>	<u>Physical Chemistry I</u>	3 []
-----------------	-----------------------------	-------

AND

<u>CHEM 321</u>	<u>Physical Chemistry II</u>	3 []
-----------------	------------------------------	-------

Revised: November 5, 2009