

Biochemical Science

A strong background in both biology and chemistry as provided by a degree in biochemical science opens many doors to employment and graduate studies. All individuals pursuing careers in medicine must have a fundamental understanding and background in biochemistry. Opportunities for the biochemical sciences major abound in a variety of areas. The Bachelor of Science degree in Biochemical Science will prepare the student for admission to graduate schools of biology and biochemistry; professional schools of health including cardiopulmonary science, medical technology, nursing, physical therapy, occupational therapy, etc.; as well as baccalaureate level positions in research, teaching, and sales. Specific areas of specialization include agriculture, biochemistry, cellular biology, genetics, food technology, forestry, industrial and residential pest management, microbiology, and molecular biology.

Biochemical Science is an interdisciplinary curriculum administered by the Departments of Biological Sciences and Chemistry and Physics to prepare graduates for vocations that utilize chemistry in biological systems. Students interested in graduate studies in biological sciences, chemistry, and related fields should judiciously select electives.

BIOCHEMICAL SCIENCE			
Total Hours: 128			
<u>FRESHMAN YEAR</u>	<u>Sem. Hrs.</u>	<u>SOPHOMORE YEAR</u>	<u>Sem. Hrs.</u>
Biological Sciences 120, 120L, 222, 222L	8	Biological Sciences 224, 224L, 363, 363L	8
Chemistry 121, 121L, 124, 124L	8	Chemistry 265, 265L, 266, 266L	8
Communications 135	3	English 205, 210, 215, or 220	3
English 105, 115	6	English 200-level	3
Mathematics 221*	4	Mathematics 222, 260	7
Social Sciences ³	<u>3</u>	Social Sciences ³	<u>3</u>
	32		32
<u>JUNIOR YEAR</u>	<u>Sem. Hrs.</u>	<u>SENIOR YEAR</u>	<u>Sem. Hrs.</u>
Biological Sciences 320, 320L, 330, 330L	8	Biochemistry 410, 410L, 412, 412L	10
Chemistry 255, 255L, 259	5	Chemistry 366	2
Humanities (Dance, Drama, Fine Arts, Music) ⁴	3	History 105, 106, 145 or 146	3
Physics 251, 251L, 252, 252L ²	8	Science 485	1
Science 300-400 electives ^{1,2}	6	Science 300-400 electives ^{1,2}	7
Social Sciences ^{3,4}	<u>3</u>	Electives ^{*,1,2}	<u>8</u>
	33		31

*MATH below 200 level not counted.

¹Students interested in graduate studies in biological sciences should choose biological sciences electives.

²Students interested in graduate studies in biochemistry or chemistry should take CHEM 303, 303L, 304, 304L, 456, 456L; MATH 223, 330; PHYS 261, 261L, 262, 262L.

³The nine term hours of Social Sciences must be taken from at least three of the following areas: Anthropology, Political Science, Economics, Psychology, Geography, and Sociology.

See "General Education Course Requirements" under **DEGREE REQUIREMENTS** for restrictions