

**ALABAMA STATE UNIVERSITY**  
**Department of Biological Sciences**  
**Biology Curriculum**  
**Pre-Health Professional Sequence**  
**(Leading to the Bachelor of Science Degree in Biology)**

<b>Core Curriculum</b> (See Undergraduate catalog) .....					42
Biology majors must choose the following core courses:					
BIO	127	General Biology.....		4	
BIO	128	General Biology.....		4	
MAT	137	Pre-Calculus Algebra.....		3	
<b>Pre-professional, Major and Elective Courses</b> .....					28
MAT	165	Pre-Calculus Trigonometry		5	
MAT	265	Calculus and Analytical Geometry I.....		4	
CHE	141	General College Chemistry I.....		4	
CHE	142	General College Chemistry II .....		4	
CIS	205	Information Systems <b>or</b>		3	
CSC	210	Introduction to Computer Science		3	
PHY	206	College Physics I .....		4	
PHY	207	College Physics II .....		4	
<b>Required Major Courses</b> .....					41
BIO	200	Introduction to Health Professions.....		1	
BIO	240	General Zoology.....		4	
BIO	241	General Botany.....		4	
BIO	319*	Human Anatomy.....		4	
BIO	320	Human Physiology.....		4	
BIO	323	Gen. Microbiology.....		4	
BIO	337	Cell Biology.....		4	
BIO	350	Biological Techniques and Instrumentation.....		4	
BIO	420	Molecular Biology and Genetics.....		4	
BIO	421	Animal Histology.....		4	
BIO	425	Immunology .....		3	
BIO	450	Seminar in Biology.....		1	
<b>Required Support Courses</b> .....					14
CHE	211	Organic Chemistry I.....		5	
CHE	212	Organic Chemistry II.....		5	
CHE	421	Biochemistry.....		4	
<b>TOTAL SEMESTER HOUR REQUIREMENTS</b> .....					125

Majors are advised to take the following courses by the end of their junior year to put them in a competitive position to take the MCAT:

Bio	240	General Zoology	4	Che	141	General College Chemistry I	4
Bio	241	General Botany	4	Che	142	General College Chemistry II	4
Bio	319*	Human Anatomy	4	Che	211	Organic Chemistry I	5
Bio	320	Human Physiology	4	Che	212	Organic Chemistry II	5
Bio	323	Gen. Microbiology	4	Che	421	Biochemistry	4
Bio	337	Cell Biology	4	Mat	165	Pre-Calculus Trigonometry	5
Bio	420	Mol. Biology & Genetics	4	Mat	265	Calculus	4
Phy	206	College Physics	4				
Phy	207	College Physics	4				

(over)

\* formerly designated as BIO 290

**NOTE:** (1) Majors are advised to complete the recommended courses and enroll in the MCAT preparatory course (non-credit) before taking the MCAT in Fall (August) of their senior year, (2) Some practical experience in health-related areas through summer internship at institutions of higher learning or through volunteer work at health-related facilities or programs is encouraged, (3) Majors are advised that professional schools require a high grade point average as well as a consistent superior performance over a considerable period of time, and (4) Although faculty advisors will provide as much assistance as possible, majors must accept the responsibility of knowing and meeting the entrance requirements for health professions schools.

**B.S. in Biology Pre-Health Professional Curriculum Sequence\***

<u>Fall Semester</u>				<u>Spring Semester</u>			
<b>FRESHMAN YEAR</b>							
Eng	131	English Composition	3	Eng	132	English Composition	3
Mat	137	Pre-Calculus Algebra	3	Mat	165	Pre-Calculus Trigonometry	5
Bio	127	General Biology	4	Bio	128	General Biology	4
Che	141	General College Chemistry I	4	Che	142	General College Chemistry II	4
Ori	100	Freshman Orientation	1				
			<u>15</u>				<u>16</u>
<b>SOPHOMORE YEAR</b>							
Che	211	Organic Chemistry I	5	Che	212	Organic Chemistry II	5
Bio	240	General Zoology	4	Csc	210	Introduction to Computer Sci.	3
Bio	241	General Botany	4	Bio	319	Human Anatomy	4
Mat	265	Calculus & Analyt. Geo.	4	Bio	337	Cell Biology	4
Bio	200	Intro. To Health Professions	1				
			<u>18</u>				<u>16</u>
<b>JUNIOR YEAR</b>							
Geo	206	World Geography	3	Bio	323	Gen. Microbiology	4
Bio	320	Human Physiology	4	Bio	421	Animal Histology	4
Che	421	Biochemistry	4	Phy	207	College Physics II	4
Phy	206	College Physics I	4	Eng	209	Intro to Literature	3
His	131	World History	3				
			<u>18</u>				<u>15</u>
<b>SENIOR YEAR</b>							
Bio	350	Biol. Tech. & Instr.	4	Psy	251	General Psychology	3
Bio	420	Mole. Biology & Genetics	4	Bio	425	Immunology	3
Bio	450	Senior Seminar	1	His	132	World History II	3
Hum	103	Humanities through African	3			or	
		American Experience		Eng	210	Intro to Literature II	3
Hum		Humanities Elective	3				
			<u>15</u>				<u>12</u>

Rev. 10/2004

*\*This is a suggested sequence of courses for those students who wish to pursue a career in secondary school teaching, and other entry level professional career opportunities that require a baccalaureate degree in biology.*

**My faculty advisor and I have thoroughly reviewed the curriculum sequence and curriculum guide for the major that I have declared. The signature attests to that review and I fully understand the curriculum requirements and course sequences.**

_____	_____	_____	_____
Student	Date	Advisor	Date