Senior Year (28)

BI 423	Biostatistics		3	BI 420	Medical Microbiology		3
BI 425	Prin. of Immunology		3	BI 420L	Med. Microbiology Lab		1
BI 425L	Prin. of Immunology Lab		1	BI 446	Histology		3
	OR						
BI 427	Immunology			BI 446L	Histology Lab		1
BI 427L	Immunology Lab						
BI 445	Genetics		3				
BI 445L	Genetics Lab		1	BI 481	Toxicology		3
BI 449	Senior Project		2	BI *	Biology Elective		3
				BI-450	Senior Seminar		1
	Total		**13**		**Total**		**15**

***Suggested Biology Elective:** BI 124, BI 348, BI 361, BI 362, BI 400, BI 402, BI 403, BI 426 or other Courses with the approval of Curriculum Advisor.

BACHELOR OF SCIENCE DEGREE
Biology Education Major
(124 Credit Hours)

The purpose of this major is to provide adequate background in zoology, botany, general biology, and other specialized areas in biological sciences. Courses are chosen in order to provide the prospective biology teacher a broad background in biological sciences.

The Department offers methods courses in conjunction with the Department of Education. The methods courses are intended to familiarize students with various pedagogical theories and their application to learning, and materials that are used to teach biology.

After completing a total of 40 semester credit hours of course work, the teaching majors must apply for admission to teacher education before they can take professional education courses. They must maintain a minimum G.P.A. of 2.50 and a minimum of "C" or above in EN 111, 112, and SA 223. To be admitted to The School of Education, the student must earn a passing score on Praxis I.

Freshman Year (30)

First Semester			**Hrs.**	**Second Semester**			**Hrs**
BI 121	General Zoology		3	CH 122	General Chemistry II		3
BI 121L	General Zoology Lab		1	CH 122L	General Chemistry Lab		1
CH 121	General Chemistry I		3	BI 124	Botany		3
CH 121L	General Chemistry Lab		1	BI 124L	Botany Lab		1
MA 121	College Algebra		3	EN 112	Composition		3
EN 111	Composition		3	MA 132	Trigonometry		3
CS 100	Info. Tech. Proficiency		1	ND 101	Health and Wellness		1
	Total		**15**		**Total**		**15**

Sophomore Year (35)

AR 214	Art Appreciation or			BI 336	Human Physiology		3
MU 213	Music Appreciation		3	BI 336L	Human Physiology		1
PE 101	Physical Education or			BI 226	Embryology		3
MS 101	Military Science		1	BI 226L	Embryology Lab		
HI 111	World Civilization		3	HI 112	World Civilization		3
BI 311	Survey of Bio. Sciences		3	PH 132	General Psychology		3
BI 335	Human Anatomy		3	ED 200	Global, Multicultural Ed		3
BI 335L	Human Anatomy Lab		1	PE 100	Physical Education or		
EN 213	Studies in Literature		3	MS 111	Military Science		1
	Total		**17**		**Total**		**18**

Junior Year (32)

BI 327	Cell Biology		3	BI 485	Methods of Teach. Science	3
BI 327L	Cell Biology Lab		1	BI 449	Senior Project	2
BI 325	General Microbiology		3	PH 326	Survey of Ex. Child	3
BI 325L	General Microbiology Lab		1	ED 498	Reading Sec Schools	3
ED 302	Practicum/Technology		3	BI*	Biology Elective	3
ED 351	Classroom Mgmt.		3			
BI*	Elective		3			
	Total		**17**		**Total**	**15**

Senior Year (27)

BI 445	Genetics		3	ED 468	Directed Teaching	12
BI 445L	Genetics Lab		1			
BI 450	Senior Seminar		1			
BI 390	Env. Bio. & Ecology		3			
BI 390L	Env. Bio. & Ecology Lab		1			
ED 348	Foundations of Ed.		3			
PH 347	Measurement & Eval.		3			
	Total		**15**		**Total**	**12**

Suggested Biology Electives: BI-400, BI-402; Courses for electives must be approved by the Curriculum

B.S. Degree in Biology
Molecular Biology (Biotechnology) Major
(124 Credit Hours)

The purpose of this curriculum is to train students in cellular and molecular bioscience, as well as genetic engineering. The students will be provided with a complete foundation in the principles of genetics and molecular biology of both prokaryotic and eukaryotic organisms.

After successful completion of this program, the student will be able, with some additional specialized training, to accept a position in any forensic, pharmaceutical, molecular biology laboratory.

Freshman Year (34)

First Semester			**Hrs.**	**Second Semester**		**Hrs.**
BI 125	General Biology I		3	BI 126	General Biology II	3
BI 125L	General Biology I Lab or		1	BI 126L	General Biology II Lab or	1
BI 121	General Zoology			BI 122	General Zoology II	
BI 121L	General Zoology Lab			BI 122L	General Zoology II Lab	
CH 121	General Chemistry I		3	CH 122	General Chemistry II	3
CH 121L	General Chemistry Lab		1	CH 122L	General Chemistry Lab	1
EN 111	Composition		3	EN 112	Composition	3
MA 181	Calculus I w/Ana. Geom.		4	MA 182	Calculus II w/Ana. Geom.	4
PE 100	Physical Education or			PE 200	Physical Education or	
MS 111	Military Science		1	MS 211	Military Science	1
UL 101	University Life		1	ND 101	Health & Wellness	1
	Total		**17**		**Total**	**17**

Sophomore Year (28)

CH 221	Organic Chemistry I		3	CH 222	Organic Chemistry II	3
CH 221L	Organic Chemistry I Lab		1	CH 222L	Organic Chemistry II Lab	1
PY 215	General Physics		3	PY 216	General Physics	3
PY 215L	General Physics Lab		1	PY 216L	General Physics Lab	1
HI 111	World Civilization		3	HI 112	World Civilization	3
EN 213	Studies in Literature		3	PH 132	General Psychology	3
	Total		**14**		**Total**	**14**