120-139

# **BACHELOR OF ARTS, MAJOR IN BIOLOGY**

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-biology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Biology		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics) 1		3
Component Area III (Life and Physic	al Science) (Courses for Science Majors) <sup>2</sup>	8
Component Area IV (Language, Phile	osophy, and Culture) <sup>3</sup>	3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Scien	ce/Government)	6
Component Area VIII (Social and Be		3
Component Area IX (Component Area	ea Option) <sup>3</sup>	4
Degree Specific Requirements		
Select one of the following:		3
BIOL 4374	Biostatistics	
MATH 3379	Statistical Methods in Practice	
STAT 3379	Statistical Methods in Practice	
CHEM 1411	General Chemistry I <sup>2</sup>	4
CHEM 1412	General Chemistry II <sup>2</sup>	4
MATH 1410	Elementary Functions <sup>1</sup>	4
WOLC 1411	Beginning Foreign Language I	4
WOLC 1412	Beginning Foreign Language II (same field)	4
WOLC 2311	Intermediate Foreign Language <sup>3</sup>	3
WOLC 2312	Intermediate Foreign Language II (same field) <sup>3</sup>	3
Major: Foundation		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 2110	Being a Professional Biologist	1
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 4110	Undergraduate Seminar	1
or BIOL 4111	Undergraduate Seminar	
BIOL 4361	Evolutionary Biology	3
Major: Prescribed Electives		
BIOL Advanced Electives (3000-400	0 level courses)	7
Major: Concentration 4		36-55
Minor: Not Required <sup>5,6</sup>		

Satisfies 3 hours of the Core Curriculum requirement for Component Area II (Mathematics) as well as 1 hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

**Total Hours** 

<sup>&</sup>lt;sup>2</sup> Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Sciences)

WOLC 2311 or WOLC 2312 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and Component Area IX.

See, Concentration course listings below.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

## Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

This total reflects MATH 1410 satisfying Component Area II and one hour of Component Area IX, and CHEM 1411 and CHEM 1412 satisfying Component Area III.

Code	Title	Hours
Major: Concentration (Integrative B	iology) <sup>4</sup>	
BIOL 3409	General Ecology	4
BIOL 3470	General Microbiology	4
Select from the following:		34-35
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3461	Wildlife Biology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4362	Paleobiology	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4380	Medical Microbiology	
BIOL 4381	Advanced Molecular Biology	
BIOL 4480	Molecular Genetics	
BIOL 4481	Physiological Ecology	
BIOL 4394	Biological Sciences Internship	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4460	Parasitology	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
BIOL 4480	Molecular Genetics	
BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	

CHEM 2325	Organic Chemistry II: Lecture	
Total Hours		42-43
Code	Title	Hours
Major: Concentration (Cell a	and Molecular) <sup>4</sup>	
BIOL 3470	General Microbiology	4
BIOL 4480	Molecular Genetics	4
or BIOL 4490	Cell Biology	
CHEM 2123	Organic Chemistry I: Lab	1
CHEM 2125	Organic Chemistry II: Lab	1
CHEM 2323	Organic Chemistry I: Lecture	3
CHEM 2325	Organic Chemistry II: Lecture	3
CHEM 3339	Biochemistry II	3
CHEM 3438	Biochemistry I	4
Select five courses from the	e following (3 must be 4-credit courses):	18-20
BIOL 3460	Pathophysiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4380	Medical Microbiology	
BIOL 4381	Advanced Molecular Biology	
BIOL 4394	Biological Sciences Internship	
BIOL 4460	Parasitology	
BIOL 4480	Molecular Genetics	
or BIOL 4490	Cell Biology	
BIOL 4481	Physiological Ecology	
BIOL 4493	Endocrinology	
Select two from the following		6-8
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3409	General Ecology	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3440	General Physiology	
BIOL 3461	Wildlife Biology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4362	Paleobiology	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4470	Animal Behavior	
DIOL THIU	Animal Denation	

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BIOL 4471	Invertebrate Zoology	
Total Hours:		47-51
Code	Title	Hours
	nvironmental, Evolutionary, and Organismal Biology) <sup>4</sup>	Tiouis
BIOL 3409	General Ecology	4
	lowing (5 must be 4-credit hour courses):	32
BIOL 2411	General Botany	02
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3461	Wildlife Biology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330		
BIOL 4362	Aquatic Biology	
BIOL 4370	Paleobiology Migraphial Foology	
	Microbial Ecology	
BIOL 4381 BIOL 4394	Advanced Molecular Biology	
	Biological Sciences Internship	
BIOL 4410 BIOL 4430	General Entomology	
	Vertebrate Natural History Animal Behavior	
BIOL 4470		
BIOL 4471	Invertebrate Zoology	
BIOL 4460	Parasitology	
BIOL 4481	Physiological Ecology	0.4
Select one from the follo		3-4
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3470	General Microbiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4374	Biostatistics	
BIOL 4380	Medical Microbiology	
BIOL 4480	Molecular Genetics	
BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	
Total Hours:		36-40
Code	Title	Hours
Major: Concentration (Fo	orensic Biology) <sup>4</sup>	
BIOL 2441	Forensic Biology Concepts	4
BIOL 3470	General Microbiology	4
BIOL 4380	Medical Microbiology	3
BIOL 4381	Advanced Molecular Biology	3

BIOL 4480	Molecular Genetics	4
BIOL 4410	General Entomology	4
CHEM 2123	Organic Chemistry I: Lab	1
CHEM 2125	Organic Chemistry II: Lab	1
CHEM 2323	Organic Chemistry I: Lecture	3
CHEM 2325	Organic Chemistry II: Lecture	3
CHEM 3438	Biochemistry I	4
FORS 3366	Forensic Science	3
FORS 4317	Applied Statistics for Forensic Science	3
FORS 4320	Fundamentals of Forensic Biology	3
FORS 4380	Ethics and Professional Practice	3
Select one from the following:		3-4
BIOL 3410	Human Biology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4380	Medical Microbiology	
BIOL 4481	Physiological Ecology	
BIOL 4490	Cell Biology	
CHEM 3339	Biochemistry II	
Select two from the following:		6-8
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3461	Wildlife Biology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4362	Paleobiology	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4394	Biological Sciences Internship	
BIOL 4430	Vertebrate Natural History	
BIOL 4460	Parasitology	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
BIOL 4493	Endocrinology	
Total Hours:		51-54

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First Year			
Fall	Hours	Spring	Hours
BIOL 1406 or 1407		4 BIOL 1407 or 1406	4
CHEM 1411 <sup>1</sup>		4 CHEM 1412 <sup>1</sup>	4
ENGL 1301 <sup>2</sup>		3 ENGL 1302 <sup>2</sup>	3
MATH 1410 <sup>3</sup>		4	
		15	11
Second Year			
Fall	Hours	Spring	Hours
BIOL 2440		4 Component Area V	3
BIOL 3409		4 Component Area IX	3
BIOL 4374, MATH 3379, or STAT 3379		3 BIOL 2110	1
HIST 1301 <sup>4</sup>		3 BIOL 3450	4
WOLC 1411		8 HIST 1302 <sup>4</sup>	3
& WOLC 1412		_	
		POLS 2305 <sup>5</sup>	3
		22	17
Third Year			
Fall	Hours	Spring	Hours
Concentration <sup>6</sup>		4-12 Component Area VIII	3
BIOL 4361		3 BIOL 4110	1
POLS 2306 <sup>5</sup>		3 Concentration <sup>6</sup>	3-8
		WOLC 2311	6
		& WOLC 2312 <sup>7</sup>	
	1	0-18	13-18
Fourth Year			
Fall	Hours	Spring	Hours
BIOL 3470		4 Concentration <sup>6</sup>	12-15
BIOL Prescribed Electives		3 BIOL Prescribed Electives	4
Concentration <sup>6</sup>		9-12	

#### Total Hours: 120-139

- Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Sciences).
- Satisfies Core Curriculum requirement for Component Area I (Communications).
- Satisfies 3 hours of the Core Curriculum requirement for Component Area II (Mathematics) and 1 hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

16-19

16-19

- Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
- Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- See, Concentration course listings below.
- WOLC 2311 or WOLC 2312 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and Component Area IX.

### Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

This total reflects MATH 1410 satisfying Component Area II and one hour of Component Area IX, and CHEM 1411 and CHEM 1412 satisfying Component Area III.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Code	Title	Hours
Major. Concentration (Integrative Biology) <sup>6</sup>		
BIOL 3409	General Ecology	4
BIOL 3470	General Microbiology	4
Select from the following:		34-35
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3461	Wildlife Biology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4362	Paleobiology	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4380	Medical Microbiology	
BIOL 4394	Biological Sciences Internship	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4460	Parasitology	
BIOL 4470	Animal Behavior	
BIOL 4480	Molecular Genetics	
BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	
CHEM 2325	Organic Chemistry II: Lecture	10.10
Total Hours:		42-43
Code	Title	Hours
Major: Concentration (Cell and Mole	cular) <sup>6</sup>	
BIOL 3470	General Microbiology	4
BIOL 4480	Molecular Genetics	4
or BIOL 4490	Cell Biology	
CHEM 2123	Organic Chemistry I: Lab	1
CHEM 2125	Organic Chemistry II: Lab	1
CHEM 2323	Organic Chemistry I: Lecture	3
CHEM 2325	Organic Chemistry II: Lecture	3
CHEM 3339	Biochemistry II	3

CHEM 3438	Biochemistry I	4
Select 5 courses from the fo	ollowing (3 must be 4-credit hour courses):	21
BIOL 3460	Pathophysiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4380	Medical Microbiology	
BIOL 4394	Biological Sciences Internship	
BIOL 4460	Parasitology	
BIOL 4480	Molecular Genetics	
or BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	
Select two from the following		6-8
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3409	General Ecology	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3440	General Physiology	
BIOL 3461	Wildlife Biology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4362	Paleobiology	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
Total Hours:		50-55
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Code	Title	Hours
Major: Concentration (Enviro	onmental, Evolutionary, and Organismal Biology) <sup>6</sup>	
BIOL 3409	General Ecology	4
Select eight from the follow	ing (5 must be 4-credit hour courses):	32
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3461	Wildlife Biology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	

BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4362	Paleobiology	
BIOL 4370	Microbial Ecology	
BIOL 4394	Biological Sciences Internship	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4470	Animal Behavior	
BIOL 4460	Parasitology	
BIOL 4471	Invertebrate Zoology	
Select two from the following:	•	6-8
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3470	General Microbiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4374	Biostatistics	
BIOL 4380	Medical Microbiology	
BIOL 4480	Molecular Genetics	
BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	
Total Hours:		36-40
Code	Title	Hours
Major: Concentration (Forensic Biol	logy) <sup>6</sup>	
Major: Concentration (Forensic Biol BIOL 2441	logy) <sup>6</sup> Forensic Biology Concepts	4
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470	Forensic Biology Concepts  General Microbiology	4
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380	Forensic Biology Concepts General Microbiology Medical Microbiology	4 4 3
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology	4 4 3 4
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab	4 4 3 4
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Lab	4 4 3 4 1
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Lab	4 4 3 4 1 1 3
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323 CHEM 2325	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Lab Organic Chemistry II: Lecture Organic Chemistry II: Lecture	4 4 3 4 1 1 3 3
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323 CHEM 2325 CHEM 3438	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Lab Organic Chemistry I: Lecture Organic Chemistry II: Lecture Biochemistry I	4 4 3 4 1 1 3 3 4
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323 CHEM 2325 CHEM 3438 FORS 3366	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Lab Organic Chemistry II: Lecture Organic Chemistry II: Lecture Forensic Science	4 4 3 4 1 1 3 3 4
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323 CHEM 2325 CHEM 3438 FORS 3366 FORS 4317	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Lab Organic Chemistry II: Lecture Forensic Science Applied Statistics for Forensic Science	4 4 3 4 1 1 3 3 4 3 3
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323 CHEM 2325 CHEM 3438 FORS 3366 FORS 4317 FORS 4320	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Lab Organic Chemistry II: Lecture Organic Chemistry II: Lecture Forensic Science Applied Statistics for Forensic Science Fundamentals of Forensic Biology	4 4 3 4 1 1 3 3 4 3 3 3
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323 CHEM 2325 CHEM 3438 FORS 3366 FORS 4317 FORS 4320 FORS 4380	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Lab Organic Chemistry II: Lecture Forensic Science Applied Statistics for Forensic Science	4 4 3 4 1 1 3 3 4 3 3 3 3 3
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323 CHEM 2325 CHEM 3438 FORS 3366 FORS 4317 FORS 4320 FORS 4380 Select one from the following:	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Lab Organic Chemistry II: Lecture Organic Chemistry II: Lecture Forensic Science Applied Statistics for Forensic Science Fundamentals of Forensic Biology Ethics and Professional Practice	4 4 3 4 1 1 3 3 4 3 3 3
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323 CHEM 2325 CHEM 3438 FORS 3366 FORS 4317 FORS 4320 FORS 4380 Select one from the following: BIOL 3410	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Lab Organic Chemistry II: Lecture Organic Chemistry II: Lecture Forensic Science Applied Statistics for Forensic Science Fundamentals of Forensic Biology Ethics and Professional Practice  Human Biology	4 4 3 4 1 1 3 3 4 3 3 3 3 3
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323 CHEM 2325 CHEM 3438 FORS 3366 FORS 4317 FORS 4320 FORS 4380 Select one from the following: BIOL 3410 BIOL 4095	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Lab Organic Chemistry II: Lecture Organic Chemistry II: Lecture  Forensic Science Applied Statistics for Forensic Science Fundamentals of Forensic Biology Ethics and Professional Practice  Human Biology Undergraduate Research Topics in Biology	4 4 3 4 1 1 3 3 4 3 3 3 3 3
Major: Concentration (Forensic Biol BIOL 2441) BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323 CHEM 2325 CHEM 3438 FORS 3366 FORS 4317 FORS 4320 FORS 4380 Select one from the following: BIOL 4095 BIOL 4096	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Lab Organic Chemistry II: Lecture Organic Chemistry II: Lecture Biochemistry I Forensic Science Applied Statistics for Forensic Science Fundamentals of Forensic Biology Ethics and Professional Practice  Human Biology Undergraduate Research Topics in Biology Special Topics In Undergraduate Biology	4 4 3 4 1 1 3 3 4 3 3 3 3 3
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323 CHEM 2325 CHEM 3438 FORS 3366 FORS 4317 FORS 4320 FORS 4380 Select one from the following: BIOL 3410 BIOL 4095 BIOL 4096 BIOL 4480	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Lab Organic Chemistry II: Lecture Organic Chemistry II: Lecture Biochemistry I Forensic Science Applied Statistics for Forensic Science Fundamentals of Forensic Biology Ethics and Professional Practice  Human Biology Undergraduate Research Topics in Biology Special Topics In Undergraduate Biology Molecular Genetics	4 4 3 4 1 1 3 3 4 3 3 3 3 3
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323 CHEM 2325 CHEM 3438 FORS 3366 FORS 4317 FORS 4320 FORS 4380 Select one from the following: BIOL 3410 BIOL 4095 BIOL 4096 BIOL 4480 BIOL 4490	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Lab Organic Chemistry II: Lecture Organic Chemistry II: Lecture Biochemistry I Forensic Science Applied Statistics for Forensic Science Fundamentals of Forensic Biology Ethics and Professional Practice  Human Biology Undergraduate Research Topics in Biology Special Topics In Undergraduate Biology Molecular Genetics Cell Biology	4 4 3 4 1 1 3 3 4 3 3 3 3 3
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323 CHEM 2325 CHEM 3438 FORS 3366 FORS 4317 FORS 4320 FORS 4380 Select one from the following: BIOL 3410 BIOL 4095 BIOL 4096 BIOL 4480 BIOL 4490 CHEM 3339	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Lab Organic Chemistry II: Lecture Organic Chemistry II: Lecture Biochemistry I Forensic Science Applied Statistics for Forensic Science Fundamentals of Forensic Biology Ethics and Professional Practice  Human Biology Undergraduate Research Topics in Biology Special Topics In Undergraduate Biology Molecular Genetics	4 4 3 4 1 1 3 3 4 3 3 3 3 3 3-4
Major: Concentration (Forensic Biol BIOL 2441) BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323 CHEM 2325 CHEM 3438 FORS 3366 FORS 4317 FORS 4320 FORS 4380 Select one from the following: BIOL 4095 BIOL 4096 BIOL 4480 BIOL 4490 CHEM 3339 Select two from the following:	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Leb Organic Chemistry II: Lecture Organic Chemistry II: Lecture Biochemistry II Forensic Science Applied Statistics for Forensic Science Fundamentals of Forensic Biology Ethics and Professional Practice  Human Biology Undergraduate Research Topics in Biology Special Topics In Undergraduate Biology Molecular Genetics Cell Biology Biochemistry II	4 4 3 4 1 1 3 3 4 3 3 3 3 3
Major: Concentration (Forensic Biol BIOL 2441 BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323 CHEM 2325 CHEM 3438 FORS 3366 FORS 4317 FORS 4320 FORS 4380 Select one from the following: BIOL 3410 BIOL 4095 BIOL 4096 BIOL 4480 BIOL 4490 CHEM 3339 Select two from the following: BIOL 2411	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Lab Organic Chemistry II: Lecture Organic Chemistry II: Lecture Biochemistry I Forensic Science Applied Statistics for Forensic Science Fundamentals of Forensic Biology Ethics and Professional Practice  Human Biology Undergraduate Research Topics in Biology Special Topics In Undergraduate Biology Molecular Genetics Cell Biology Biochemistry II  General Botany	4 4 3 4 1 1 3 3 4 3 3 3 3 3 3-4
Major: Concentration (Forensic Biol BIOL 2441) BIOL 3470 BIOL 4380 BIOL 4410 CHEM 2123 CHEM 2125 CHEM 2323 CHEM 2325 CHEM 3438 FORS 3366 FORS 4317 FORS 4320 FORS 4380 Select one from the following: BIOL 4095 BIOL 4096 BIOL 4480 BIOL 4490 CHEM 3339 Select two from the following:	Forensic Biology Concepts General Microbiology Medical Microbiology General Entomology Organic Chemistry I: Lab Organic Chemistry II: Leb Organic Chemistry II: Lecture Organic Chemistry II: Lecture Biochemistry II Forensic Science Applied Statistics for Forensic Science Fundamentals of Forensic Biology Ethics and Professional Practice  Human Biology Undergraduate Research Topics in Biology Special Topics In Undergraduate Biology Molecular Genetics Cell Biology Biochemistry II	4 4 3 4 1 1 3 3 4 3 3 3 3 3 3-4

BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3461	Wildlife Biology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4362	Paleobiology	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4394	Biological Sciences Internship	
BIOL 4430	Vertebrate Natural History	
BIOL 4460	Parasitology	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
BIOL 4493	Endocrinology	
Total Hours:		51-54

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Biology is designed to provide graduates with the following marketable skills:

- Master the depth of knowledge required for a degree in biological sciences.
- · Demonstrate critical thinking.
- · Communicate effectively.
- · Work collaboratively.