

# BIOLOGICAL SCIENCES FORENSIC BIOLOGY

## REQUIREMENTS

### CORE CURRICULUM

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at [marshall.edu/gened](http://marshall.edu/gened).

#### CORE 1: CRITICAL THINKING

CODE	COURSE NAME	HRS	GRADE
FYS 100	First Year Seminar	3	_____
_____	Critical Thinking Course	3	_____
_____	Critical Thinking Course	3	_____

#### Additional University Requirements

_____	Writing Intensive	3	_____
_____	Writing Intensive	3	_____
_____	Multicultural or International	3	_____
BSC 491	Capstone	2	_____

#### CORE 2:

CODE	COURSE NAME	HRS	GRADE
ENG 101	Beginning Composition	3	_____
ENG 201	Advanced Composition	3	_____
CMM 103	Fund Speech-Communication	3	_____
MTH 140 or MTH 229	Applied Calculus or Calculus/ Analytic Geom I (CT)	3-5	_____
BSC 120/L	Principles of Biology I / Lab	3/1	_____
_____	Core II Humanities	3	_____
_____	Core II Social Science	3	_____
_____	Core II Fine Arts	3	_____

### MAJOR-SPECIFIC

All Biological Sciences majors are required to take the following courses:

CODE	COURSE NAME	HRS	GRADE	CODE	COURSE NAME	HRS	GRADE
BSC 121/L	Principles of Biology II / Lab	3/1	_____	CHM 212	Principles of Chemistry II	3	_____
CHM 211	Principles of Chemistry I	3	_____	CHM 218	Principles of Chemistry II Lab	2	_____
CHM 217	Principles of Chemistry I Lab	2	_____	PHY 201	College Physics I	3	_____
				PHY 202	College Physics I Lab	1	_____

### AREA OF EMPHASIS-SPECIFIC

Students who wish to add an area of emphasis in Forensic Biology must take the following courses:

CODE	COURSE NAME	HRS	GRADE	CODE	COURSE NAME	HRS	GRADE
CHM 355	Organic Chemistry I	3	_____	BSC 3__	BSC Core Course	3/4	_____
CHM 356	Organic Chemistry II	3	_____	FSC 224	Intro to Forensic Science	4	_____
CHM 361	Organic Chemistry II Lab	3	_____	CJ 200 or 211	Intro to Criminal Justice or Intro to Law Enforcement	3	_____
CHM 365	Introductory Biochemistry	3	_____	CJ ____	CJ Elective	3	_____
PHY 203	College Physics II	3	_____	_____	AoE Elective	3/4	_____
PHY 204	College Physics II Lab	1	_____	_____	AoE Elective	3/4	_____
BSC 3__	BSC Core Course	3/4	_____	_____	AoE Elective	3/4	_____
BSC 3__	BSC Core Course	3/4	_____	_____	AoE Elective	3/4	_____
BSC 3__	BSC Core Course	3/4	_____	_____	BSC Technical Elective	3	_____
BSC 3__	BSC Core Course	3/4	_____	_____	Free Elective (MTH 122 recommended for PHY pre-req)	3	_____

### MAJOR INFORMATION

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Students must pass BSC 120 Principles of Biology I & BSC 120L Principles of Biology I Lab and earn a grade of C or better in BSC 121 Principles of Biology II & BSC 121L Principles of Biology II Lab, CHM 211 Principles of Chemistry I, and CHM 212 Principles Chemistry II before they can enroll in any upper-level BSC course except BSC 227 Human Anatomy, BSC 228 Human Physiology and BSC 250 Microbiol & Human Disease.
- BSC 104 Introduction to Biology, BSC 105 Human Biology, BSC 227/227L Human Anatomy, BSC 228/228L Human Physiology, and BSC 250 Microbiol and Human Disease do not count towards a BSC major and cannot substitute for any required or elective BSC courses.
- A minimum of 15 hours of 400-level credit is required.
- In addition to the Core General Education requirements, the College of Science requires 3-5 hours of Calculus, and 40 hours of upper level credit.
- The CHM coursework provides a Chemical Sciences minor.
- Students are encouraged to seek a minor in Criminal Justice.
- Coursework listed as "elective" may vary for each student.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature

- course could satisfy the Core II Humanities requirement as well as the University writing intensive requirement.
- Course offerings and course attributes are subject to change. Please consult each semester's schedule of courses for availability and attributes.
- MTH 140 Applied Calculus requires ACT Mathematics score of 24 or higher. Students with an ACT Mathematics score less than 24 will be placed in the appropriate prerequisite mathematics courses.
- All Biological Science majors are required to complete a minimum of 40 hours of credits in the Department of Biological Sciences. Biochemistry courses count towards those 40 hours in this Area of Emphasis.
- CJ elective can be met by taking one of the following courses: CJ 314, 322, 323, 406 or 422.
- AoE Elective students will select from the following: BSC 304, 404, 417, 422, 423, 424, 426, 428, 435, 436, 443, 448, 450, 451, 454, 456, 463
- BSC Technical Elective: Select a minimum of 3 credits of 300 or 400-level BSC or closely related courses for technical electives.

◆ Area of Emphasis  
◆ Major Requirement

■ College Requirement  
● General Education Requirement

Milestone Course: This is a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

# BIOLOGICAL SCIENCES FORENSIC BIOLOGY

The Department of Biological Sciences is committed to teaching students about the science of life from molecular to global scales. A degree in Biological Sciences prepares students for careers and graduate study in diverse fields such as human and veterinary medicine, dentistry, biomedical and pharmaceutical research, environmental consulting, wildlife ecology, and K12 or higher education.

	FALL SEMESTER					SPRING SEMESTER				
	CODE	COURSE NAME	HRS	GRADE		CODE	COURSE NAME	HRS	GRADE	
YEAR ONE	BSC 120/L	Principles of Biology I / Lab	● ◆	3/1	_____	BSC 121/L	Principles of Biology II / Lab	◆	3/1	_____
	CHM 211	Principles of Chemistry I	◆	3	_____	CHM 212	Principles of Chemistry II	◆	3	_____
	CHM 217	Principles of Chemistry Lab I	◆	2	_____	CHM 218	Principles of Chemistry Lab II	◆	2	_____
	MTH 140 or	Applied Calculus or Calculus/	● ◆	3-5	_____	FYS 100	First Year Sem Crit Thinking	●	3	_____
	MTH 229	Analytic Geom I (CT)				_____	Core II Fine Arts	●	3	_____
	ENG 101	Beginning Composition	●	3	_____					
	UNI 100	Freshman First Class		1	_____					
	<b>TOTAL HOURS</b>			<b>16-18</b>		<b>TOTAL HOURS</b>			<b>15</b>	
	Summer Term (optional):									
YEAR TWO	FALL SEMESTER					SPRING SEMESTER				
	BSC 3__	BSC Core Course	◆	3/4	_____	BSC 3__	BSC Core Course	◆	3/4	_____
	CHM 355	Organic Chemistry I	◆	3	_____	CHM 356	Organic Chemistry II	◆	3	_____
	ENG 201	Advanced Composition	●	3	_____	CHM 361	Organic Chemistry II Lab	◆	3	_____
	_____	Core II Social Science (PSY 201 or SOC 200 recommended)	●	3	_____	FSC 224	Intro to Forensic Science	◆	4	_____
	_____	Free Elective (MTH 122 recommended for PHY pre-req)		3	_____	_____	Core I Critical Thinking	●	3	_____
	<b>TOTAL HOURS</b>			<b>15-16</b>		<b>TOTAL HOURS</b>			<b>16-17</b>	
		Summer Term (optional):								
YEAR THREE	FALL SEMESTER					SPRING SEMESTER				
	BSC 3__	BSC Core Course	◆	3/4	_____	BSC 3__	BSC Core Course	◆	3/4	_____
	PHY 201	College Physics I	◆	3	_____	PHY 203	College Physics II	◆	3	_____
	PHY 202	College Physics I Lab	◆	1	_____	PHY 204	College Physics II Lab	◆	1	_____
	_____	AoE Elective (BSC 417 Recommended)	◆	3/4	_____	_____	Core II Humanities	●	3	_____
	CHM 365	Introductory Biochemistry	◆	3	_____	CJ 200 or	Intro to Criminal Justice or Intro to	◆	3	_____
	CMM 103	Fund Speech-Communication	●	3	_____	211	Law Enforcement			
	<b>TOTAL HOURS</b>			<b>16-18</b>		<b>TOTAL HOURS</b>			<b>13-14</b>	
	Summer Term (optional):									
YEAR FOUR	FALL SEMESTER					SPRING SEMESTER				
	_____	AoE Elective	◆	3/4	_____	BSC 491	Capstone	● ◆	2	_____
	_____	AoE Elective	◆	3/4	_____	_____	Writing Intensive	●	3	_____
	_____	Core I Critical Thinking	●	3	_____	_____	AoE Elective	◆	3/4	_____
	_____	Multicultural or International	●	3	_____	CJ ____	CJ Elective	◆	3	_____
	_____	Writing Intensive	●	3	_____	_____	BSC Technical Elective	◆	3	_____
	<b>TOTAL HOURS</b>			<b>15-17</b>		<b>TOTAL HOURS</b>			<b>14-15</b>	
		Summer Term (optional):								

● General Education Requirement    ■ College Requirement    ◆ Major Requirement    ◆ Area of Emphasis

Milestone Course: This is a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.