## BIOLOGY - ORGANISMAL BIOLOGY (BACHELOR OF SCIENCE)

Organismal Biology is intended for those majors who plan graduate study in organismal biology (plant or animal biology), or who plan to pursue careers in biological education or conservation biology or as a naturalist.

Course	Title	Credits
Jax MIX General Education Curriculum		41

The requirements for the major in Biology are:

Course	Title	Credits	
Freshman Biolog	gy Sequence		
BY 101	Introductory Biology I	3	
BY 102	Introductory Biology II	3	
BY 103	Introductory Biology Lab I	1	
BY 104	Introductory Biology Lab II	1	
Biology Core Courses			
BY 322	Genetics (WI)	4	
BY 324	Introduction to Evolutionary Biology	3	
BY 332	Ecology	4	
BY 373	Cell Biology	4	
Biology concent	ration (see requirements below)	15	
Senior Seminar			
BY 496	Senior Seminar (WI)	1	
Freshman Chemistry Sequence			
CY 105	General Chemistry I	3	
CY 106	General Chemistry II	3	
CY 107	General Chemistry Laboratory I	1	
CY 108	General Chemistry Laboratory II	1	
Organic Chemist	ry sequence		
CY 231	Organic Chemistry I	4	
CY 232	Organic Chemistry II	4	
Mathematics			
Select one of the	e following:	3-4	
MS 113	Precalculus Trigonometry		
MS 125	Calculus I		
or higher			
Computer Science	ce		
CS 201	Introduction to Information Technology	3	
Physics Sequence	Physics Sequence		
PHS 201	College Physics I	4	
& PHS 203	and College Physics Laboratory Techniques I		
PHS 202	College Physics II	4	
& PHS 204	and College Physics Laboratory Techniques II		
Total Hours		69-70	

The requirements for the concentration in Organismal Biology are:

Course	Title	Credits
BY 300+ Electives		15
Total Hours		15

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations. More information about Jax MIX requirements (https://catalog.jsu.edu/undergraduate/jax-mix-requirements/) and Alabama Transfers equivalents (https://catalog.jsu.edu/undergraduate/alabama-transfers-equivalents/) can be found in their respective section of the catalog.

• •	ive section of the catalog.	50
Freshman		
Fall		Hours
Jax MIX Communication: EH	Composition sequence	3
BY 101 & BY 103	Introductory Biology I and Introductory Biology Lab I (Jax MIX Inquiry)	4
MS 112	Precalculus Algebra (or higher - Jax MIX Communication)	3
CY 105	General Chemistry I	4
& CY 107	and General Chemistry Laboratory I	
SSC 101	First Year Experience	0
	Hours	14
Spring		
Jax MIX Communication: EH		3
BY 102 & BY 104	Introductory Biology II and Introductory Biology Lab II (Jax MIX Inquiry)	4
CY 106	General Chemistry II	4
& CY 108 MS 113	and General Chemistry Laboratory II	2
M2 113	Precalculus Trigonometry (or higher)	3
Sophomore Fall	Hours	14
Jax MIX Expression: Literatu		3
Jax MIX Experience: History CY 231		4
Biology Core	Organic Chemistry I	
Biology Core	Haura	14
Chrina	Hours	14
Spring  Jax MIX Expression: Literatu	Iro.	3
Jax MIX Experience: History		3
CS 201	Introduction to Information Technology	3
CY 232	Organic Chemistry II	4
Biology Core		4
	Hours	17
Junior		
Fall		
EH 141	Speech (Jax MIX Communication)	3
PHS 201	College Physics I	4
& PHS 203	and College Physics Laboratory Techniques I 1	
Biology Core		4
Biology Concentration Electi	ve	4
	Hours	15
Spring		
Jax MIX Experience: Social/I	Behavioral Science	3
PHS 202 & PHS 204	College Physics II and College Physics Laboratory Techniques II <sup>1</sup>	4
Biology Core		3
Biology Concentration Elective 4		
	Hours	14
Senior		
Fall		
Jax MIX Expression: Fine Art	is	3

Jax MIX Experience: Social/Behavioral Science

## Biology - Organismal Biology (Bachelor of Science)

2

Biology Concentration Elective		4
Electives		6
	Hours	16
Spring		
BY 496	Senior Seminar (WI)	1
Biology Concentration Elective		3
Electives		12
	Hours	16
	Total Hours	120

Students may elect to take calculus-based PHS 221 Physics for Scientists and Engineers I w/Lab (4)/PHS 222 Physics for Scientists and Engineers II w/Lab (4) in place of PHS 201 College Physics I (3)/PHS 202 College Physics II (3).