

Microbiology Major - 37 hours of BSC coursework

Freshman Year			
Fall Semester		Spring Semester	
Course ID	Credit hours	Course ID	Credit hours
Principles of Biology I - BSC 114 (or Honors BSC 118)	3 (4)	Principles of Biology II - BSC 116 (or Honors BSC 120)	3 (4)
Principles of Biology I Lab - BSC 115	1	Principles of Biology II Lab - BSC 117	1
CH 101 (or Honors CH 117)	4	CH 102 (or Honors CH 118)	4
GE Electives	3	GE Electives	3
GE Electives	3	GE Electives	3
GE Electives	3	GE Electives	3
Total	15-17	Total	15-17
Sophomore Year			
Fall Semester		Spring Semester	
Course ID	Credit hours	Course ID	Credit hours
Cell Biology - BSC 300	3	Microbiology I - BSC 310	3
MATH 125	4	Microbiology I Lab - BSC 312	2
Organic Chemistry I - CH 231	3	Organic Chemistry II - CH 232	3
GE Electives	3	Organic Chemistry Lab - CH 237	2
GE Electives	3	GE Electives	3
		GE Electives	3
Total	16	Total	16
Junior Year			
Fall Semester		Spring Semester	
Course ID	Credit hours	Course ID	Credit hours
Biochemistry - BSC 450 (Pre-Health requirement)	3	BSC Elective	3
Physics I - PH 101 (PH 105 w/ Calculus)	4	BSC Elective (Lab Elective)	4
Microbiology II - BSC 311	3	Physics II - PH 102 (PH 106 w/ Calculus)	4
GE Electives	3	GE Electives	3
GE Electives	3	GE Electives	3
Total	16	Total	17
Senior Year			
Fall Semester		Spring Semester	
Course ID	Credit hours	Course ID	Credit hours
BSC Elective	3	BSC Elective	3
BSC Elective (Lab Elective)	4	BSC Elective	3
GE Electives	3	GE Electives	3
GE Electives	3	GE Electives	3
GE Electives	3	GE Electives	3
Total	16	Total	15

Requirements for the Bachelor of Science in Microbiology – University of Alabama – 2020-2021 catalog

<p>Required courses (18 hours)</p> <ul style="list-style-type: none"> • BSC 114/115 or 118 – Principles Of Biology I/Laboratory Biology I or Honors General Biology I • BSC 116/117 or 120 – Principles Biology II/Biology II Laboratory or Honors General Biology II • BSC 300 – Cell Biology • BSC 310 – Microbiology • BSC 311 – Microbiology II • BSC 312 – Microbiology Lab 	<p>Elective courses (19 hours), to be chosen from the following:</p> <ul style="list-style-type: none"> • BSC 313 – Gen Bacteriology Lab • BSC 380 – Introductory Statistics for Biologists • BSC 390 – Honors Thesis Research • BSC 391 – Tutorial in Biological Science • BSC 393 – Biology Outreach • BSC 396 – Resident Study • BSC 398 – Undergraduate Research • BSC 399 – Presentation of Undergraduate Research • BSC 403 – Intro to BSC Instruction • BSC 404 – Honors Intro to BSC Instruction • BSC 409/410 – Pre-Health Apprenticeship • BSC 411 – Phage Discovery • BSC 426 – Computational Biology Lab • BSC 431 – Pathogenic Microbiology • BSC 435 – Immunology • BSC 439 – Molecular Biology Lab • BSC 442 – Integrated Genomics • BSC 444 – General Virology • BSC 450 – Fundamentals of Biochemistry • BSC 451 – Molecular Biology • BSC 456 – Microbial Ecology • BSC 464 – Biology Of Algae • BSC 472 – Mycology • BSC 473 – Bioinformatics • BSC 481 – Foundations in Advanced Biostatistics with Applications to R • BSC 483 – Evolution • BSC 488 – Research Seminars in Biology • BSC 496 – Bioremediation • BSC 497 – Special Topics (e.g., Biochemistry Lab, Microbiome in Disease & Health, Disease Ecology, Programming with R) <p>The elective courses must include two laboratory courses. The lab course requirement may not be fulfilled with both BSC 390 and 398.</p>	<p>Required ancillary science and mathematics courses</p> <ul style="list-style-type: none"> • CH 101 or 117 – General Chemistry or Honors General Chemistry • CH 102 or 118 – General Chemistry or Honors General Chemistry • CH 231 – Elem Organic Chemistry I • CH 232 – Elem Organic Chemistry II • CH 237 – Elem Organic Chemistry Lab • MATH 125 or 145 – Calculus I or Honors Calculus I • PH 101, 105 or 125 – General Physics I or General Physics w/Calculus I or Honors General Physics w/Calculus • PH 102, 106 or 126 – General Physics II or General Physics w/Calculus II or Honors General Physics w/Calculus
---	--	--