

B.S. in Biology with an Emphasis in Biomedical Sciences

Department of Ecology & Evolutionary Biology, University of Arizona

Check-Sheet for 2023-2024 Catalog

Name:

SID:

Date:

GENERAL EDUCATION

Composition

ENGL 101 & 102 3, 3

or ENGL 106, 107 & 108 3, 3, 3

or ENGL 109H 3

Second Language

Second semester proficiency by credit or exam

Intro to General Education

UNIV 101 1

Exploring Perspectives

Artist 3

Humanist 3

Natural Scientist 3

Social Scientist 3

Building Connections

Course 1 3

Course 2 3

Course 3 3

Capstone

UNIV 301 1

Foundation Mathematics

Prerequisites: Placement or MATH 100, 112, (120R)

MATH 122A & 122B Calculus I 1, 4

or MATH 125 Accelerated Calculus I 3

or MATH 119A Math of Bio Systems 4

SCIENCE FOUNDATION

Mathematics

MATH 129 Calculus II 3

or MATH 263 Biostatistics 3

or ECOL 379 Evidence-Based Medicine 3

General Chemistry I & II

CHEM 151 or 161 & 163 4

CHEM 152 or 162 & 164 4

Organic Chemistry I & II

CHEM 241A & 243A 4

CHEM 241B & 243B 4

Physics I & II

PHYS 102 & 181 Algebra-based I 3, 1

PHYS 103 & 182 Algebra-based II 3, 1

or PHYS 141 & 241 Calculus-based I & II 4, 4

BIOLOGY CORE COURSES

ECOL 182R & 182L Intro Bio II 3, 1

MCB 181R & 181L Intro Bio I 3, 1

ECOL 302 Ecology (Fall) 4

ECOL 320 Genetics (Fall & Summer) 4

ECOL 335 Evolutionary Biology (Spring) 4

BIOC 384 Biochemistry 3

BIOMEDICAL SCIENCES ELECTIVES

Major Electives must be upper division (300- or 400-level) and may only count towards one category. Up to six units of graded upper division research credit may count towards Major Electives.

Physiology 8

or PSIO 201 & 202

Genetics 3

Cellular or Molecular Biology 6

Microorganismal Biology 3

Macroorganismal Biology 3

Science and Society 3

Additional Elective Requirements

Lab Component Course

Writing Emphasis Course

GRADUATION REQUIREMENTS

MCWA: B or Higher in ENGL 102, 108 or 109H

C or Higher in Second Language

120 Units

42 Upper Division Units (300/400 Level)

56 University Units

30 Units at UA

18 Upper Division Units at UA

General Education Complete

2.00 Cumulative GPA

2.00 Major GPA

Major Complete

This is an unofficial summary. Please refer to UAccess for your current Advisement Report and academic status.

View Major Elective options in your Advisement Report or at eeb.arizona.edu/undergraduate/majors-minors/core-elective-courses

B.S. in Biology with an Emphasis in Biomedical Sciences

Department of Ecology & Evolutionary Biology, University of Arizona

Example Four-Year Plans

The B.S. in Biology: Biomedical Sciences can be completed in four years regardless of initial math placement. The following example Four-Year Plans illustrate typical course-loads by semester with various math placement levels.

Year One	Four-Year Plan with MATH 100 Placement				Four-Year Plan with Algebra Placement			
	Fall	11 (13)	Spring	17	Fall	14	Spring	15
	MATH 100	3	MATH 112	3	MATH 112	3	CHEM 151	4
	ENGL 101	3	Gen Ed	3	ENGL 101	3	MATH 120R	4
	Language	4	ENGL 102	3	Language	4	ENGL 102	3
	UNIV 101	1	ECOL 182R	3	Gen Ed	3	Language	4
	SAS 100AX	2	ECOL 182L	1	UNIV 101	1		
			Language	4				
Year Two	Fall	15	Spring	15	Fall	16	Spring	14
	MATH 120R	4	MATH 122A	1	MATH 122A	1	ECOL 182R	3
	MCB 181R	3	MATH 122B	4	MATH 122B	4	ECOL 182L	1
	MCB 181L	1	CHEM 152	4	CHEM 152	4	CHEM 241A	3
	CHEM 151	4	Gen Ed	3	MCB 181R	3	CHEM 243A	1
	Gen Ed	3	Gen Ed (UD)	3	MCB 181L	1	Gen Ed	3
			Gen Ed (UD)	3	Gen Ed	3	MATH 129/263	3
Year Three	Fall	17	Spring	14	Fall	14	Spring	17
	ECOL 320	4	ECOL 335	4	ECOL 320	4	ECOL 335	4
	CHEM 241A	3	CHEM 241B	3	CHEM 241B	3	PHYS 102	3
	CHEM 243A	1	CHEM 243B	1	CHEM 243B	1	PHYS 181	1
	MATH 129/263	3	Major Elective	3	Gen Ed (UD)	3	Gen Ed (UD)	3
	Major Elective	3	Major Elective	3	Major Elective	3	Major Elective	3
	Gen Ed (UD)	3					Major Elective	3
Year Four	Fall	16	Spring	17	Fall	16	Spring	16
	ECOL 302	4	BIOC 384	3	ECOL 302	4	BIOC 384	3
	PHYS 102	3	PHYS 103	3	PHYS 103	3	Gen Ed (UD)	3
	PHYS 181	1	PHYS 182	1	PHYS 182	1	PSIO 202	4
	PSIO 201	4	PSIO 202	4	PSIO 201	4	Major Elective	3
	Major Elective	3	Major Elective	3	Major Elective	3	Major Elective	3
	GE Capstone	1	Major Elective	3	GE Capstone	1		
	Total Units	122			Total Units	122		

B.S. in Biology with an Emphasis in Biomedical Sciences

Department of Ecology & Evolutionary Biology, University of Arizona

Example Four-Year Plans

The B.S. in Biology: Biomedical Sciences can be completed in four years regardless of initial math placement. The following example Four-Year Plans illustrate typical course-loads by semester with various math placement levels.

	Four-Year Plan with Pre-Calculus Placement				Four-Year Plan with Calculus Placement			
Year One	Fall	15	Spring	16	Fall	16	Spring	14
	MATH 120R	4	MATH 122A	1	MATH 122A	1	MATH 129/263	3
	CHEM 151	4	MATH 122B	4	MATH 122B	4	CHEM 152	4
	ENGL 101	3	CHEM 152	4	CHEM 151	4	ECOL 182R	3
	Gen Ed	3	ECOL 182R	3	ENGL 101	3	ECOL 182L	1
	UNIV 101	1	ECOL 182L	1	Gen Ed	3	ENGL 102	3
			ENGL 102	3	UNIV 101	1		
Year Two	Fall	15	Spring	15	Fall	15	Spring	14
	MATH 129/263	3	CHEM 241B	3	CHEM 241A	3	CHEM 241B	3
	CHEM 241A	3	CHEM 243B	1	CHEM 243A	1	CHEM 243B	1
	CHEM 243A	1	PSIO 201	4	MCB 181R	3	Gen Ed	3
	MCB 181R	3	Language	4	MCB 181L	1	Major Elective	3
	MCB 181L	1	Gen Ed	3	Language	4	Language	4
	Language	4			Gen Ed	3		
Year Three	Fall	17	Spring	16	Fall	17	Spring	16
	ECOL 320	4	ECOL 335	4	ECOL 320	4	ECOL 335	4
	PSIO 202	4	Major Elective	3	PSIO 201	4	PSIO 202	4
	Major Elective	3	Major Elective	3	Major Elective	3	Major Elective	3
	LD Biology	3	Gen Ed (UD)	3	Additional Units	3	Gen Ed (UD)	3
	Gen Ed (UD)	3	Gen Ed (UD)	3	Gen Ed (UD)	3	Gen Ed (UD)	3
Year Four	Fall	15	Spring	13	Fall	15	Spring	12
	ECOL 302	4	BIOC 384	3	ECOL 302	4	BIOC 384	3
	PHYS 102	3	PHYS 103	3	PHYS 102	3	PHYS 103	3
	PHYS 181	1	PHYS 182	1	PHYS 181	1	PHYS 182	1
	Major Elective	3	Major Elective	3	Major Elective	3	Major Elective	3
	Major Elective	3	Additional Units	3	Major Elective	3	Additional Units	2
	GE Capstone	1			GE Capstone	1		
	Total Units	122			Total Units	120		