BACHELOR OF SCIENCE DEGREE IN MICROBIOLOGY

This checklist is intended as a guide and is not an official document.

NAME	SID	DATE:	
GENERAL REQUIREMENTS		SUPPORTING COURSEWORK (46-47	units)
UNIV 101 - Intro. to the General Ed. Experien	ce 1□	-MCB 181R – Introductory Biology I	3 □
Mathematics: Complete one of the following:	(3-5 units)	-MCB 181L – Introductory Biology I Lab	1 □
-MATH 113 – Elements of Calc.	3	-ECOL 182R – Introductory Biology II	3 □
-MATH 119A – Math of Biol. Sys./Calc. approach 4		-ECOL 182L – Introductory Biology II Lab	1 🗆
, , , , , , , , , , , , , , , , , , , ,	_	-MIC 285R – Principles of Microbiology (Spring only)	4 □
2		-MIC 285L – Principles of Microbiology Lab (Sp. only)	
-MATH 125 – Calculus I		-CHEM 151 – General Chemistry I	4 □
Writing Requirement	(3-6 units)	-CHEM 152 – General Chemistry II	4 🗆
-ENGL 101 – Freshman Composition	3 □	-CHEM 241A – Organic Chemistry I	3 □ 1 □
-ENGL 102 – Freshman Composition	3 □	-CHEM 243A – Organic Chemistry I Lab	
OR .		-CHEM 241B – Organic Chemistry II	3 🗆
-ENGL 109H – Advanced First Year Comp.	3 □	-CHEM 243B – Organic Chemistry II Lab	1 □ 3 □
Second Language Requirement	(0-8 units)	-BIOC 384 – Foundations in Biochemistry	
Complete one of the following:	(o o armo)	-PHYS 110 - Intro. Studio Physics I - * <i>Or take PHYS 102 (3) and PHYS 181 (1)</i>	4 □ 4 □
-Pass a proficiency exam at 2nd semester leve	l. 🗆	- "Of take PHTS 102 (3) and PHTS 101 (1) -PHYS 111 Studio Physics II	4 □
-Complete courses through 2nd semester prof		- *Or take PHYS 103 (3) and PHYS 182 (1)	4 □
, ,		- Of take Fift 5 105 (5) and Fift 5 102 (1)	7 🗆
General Education Requirements		Communications Complete one of the followings	
Exploring Perspectives (12 Units)	2 🗆	<u>Communication</u> : Complete <u>one</u> of the following: -ALC 422 – Comm. Knowledge in Ag. (Fall only)	3 □
-Artist	3 □ 3 □	-COMM 101 – Intro. to Communication	3 🗆
-Humanist	3 □	-COMM 119 – Public Speaking	3 □
-Natural Scientist	3 □		
-Social Scientist	3 -	Statistics: Complete one of the following:	
Building Connections (9 Units)	3 □	-AREC 239 – Intro. to Stats and Data (Spring only) $4 \Box$	
	3 □	-MATH 263 – Intro. to Statistics and Biostats.	3 □
	3 □	-PSY 230 – Psyc. Measurements and Stats.	3 □
	_	-SBS 200 – Intro. to Stats for the Social Sci.	4 □
UNIV 301 - The GE ePortfolio	1 🗆	MAJOR CORE COURSEWORK* (28 units)	
		-MIC 328R – Microbial Physiology (Spring only)	3 □
FIRST YEAR SEMINAR (1 unit)		-MIC 350 – Molecular Microbiology (Fall only)	3 □
Microbiology students are strongly encourage	ed to take	-MIC 419 – Immunology (Fall only, some Summers)	4 □
a first-year seminar or colloquium of their che	oice:	-MIC 421B – Microbial Techniques (Fall only)	5 □
ACRS 10E Living Dangerough (Spring only)		-MIC 428R – Microbial Genetics (Spring/Summer)	3 □
ACBS 195 - Living Dangerously (Spring only) MIC 195D - Colloquim: This Wormy World (F	all only)	-MIC 428L – Microbial Genetics Lab (Spring only)	2 □
MIC 195F - Plagues, Peoples, & Society (Spri		(1 5 //	
MIC 195G - Careers in Microbiology (Fall only			
		MIC Elective*(8 units) See Microbiology Elective Lis	st
			<u> </u>
UNIVERSITY REQUIREMENTS:		*A	
out of 120 units Need:		*A maximum of 9 units of your major core coursework (28 including 8 MIC Elective units) may double dip with another	
out of 42 upper division units Need	:	or minor. The remaining core units must be unique and can	
out of 30 units in residence Need		double dip with another major or minor.*	
Mid-Career Writing Assessment - Complete?			
Cumulative GPA: Major GPA:		For more information, contact: Ms. Micah Parrish,	

Expected Graduation Term:

 \mid Credit Type – EN= Enrollment at UA, IP= In Progress, TR=Transfer Credit, TE= Test Credit \mid

micahparrish@arizona.edu or (520) 626-3807.

Microbiology Electives (2025 Catalog)

*Up to 3 units of Directed Research (ACBS/MIC 492), Independent Study (MIC 399/499), Internship (MIC 493), or Preceptorship (ACBS 491) can be counted as elective units. Must be microbiology related.

Fall Semester

ACBS 380R- Food Safety & Microbiology (3) ACBS 380L- Food Safety & Microbiology (1) ACBS 423- Mechanisms of Disease (3) ACBS 438- Ecology of Infectious Disease (3) BIOC 385- Metabolic Biochemistry (3)

ECOL 320- Genetics (4) ECOL 326- Genomics (3)

ECOL 409- Evolution of Infectious Diseases (3)

ENVS 408- Scientific Writing for Env., Ag., & Life Sciences (3)

ENVS 425- Environmental Microbiology (3) ENVS 426- Environmental Microbiology Lab (2)

MCB 410- Cell Biology (3)

MCB 422- Problem Solving with Genetic Tools (3)

MIC 329A- Microbial Diversity (3)

MIC 340- Introduction to Biotechnology (3) MIC 432- Comparative Immunology (3) MIC 420- Pathogenic Bacteriology (3)

MIC 450- Veterinary Microbiology (3)

MIC 452- Antibiotics: A Biological Perspective (3)

PLP 305- Introductory Plant Pathology (3)

PLP 427R- General Mycology (3) PLS 333- General Virology (3)

PLS 434- Industrial Biotechnology (3)

Spring Semester

ACBS 313- Principles of Animal Genetic Systems (3) ACBS 317- One Health: A Microbial Perspective (3)

ACBS 377- Food Toxicology (3)

ACBS 403R- Biology of Animal Parasites (3)

ACBS 405- Principles of Livestock Health Management (3) ACBS 409- Environmental Physiology of Domestic Animals (3)

ACBS 443- Research Animal Methods (3) BIOC 385- Metabolic Biochemistry (3)

ECOL 409- Evolution of Infectious Diseases (3)

ENVS 408- Scientific Writing for Env., Ag., & Life Sciences (3)

ENVS 425- Environmental Microbiology (3) ENVS 475- Freshwater and Marine Algae (4)

MIC 320- Microbiomes (3)

MIC 340- Introduction to Biotechnology (3)

MIC 430- Food Microbiology and Biotechnology (3) MIC 430L- Food Microbiology and Biotechnology Lab (2)

MIC 433- Medical and Molecular Virology (4)

MCB 411- Molecular Biology (3)

MCB 473- Recombinant DNA Methods and Applications (4)

Summer Semester

ACBS 313- Principles of Animal Genetic Systems (3)

ACBS 380R- Food Safety and Microbiology (3)

ACBS 405- Principles of Livestock Health Management (3)

BIOC 385- Metabolic Biochemistry (3)

ECOL 320- Genetics (4)

ECOL 326- Genomics (3)

ECOL 409- Evolution of Infectious Diseases (3)

ENVS 408- Scientific Writing for Env., Ag. & Life Sciences (3)

ENVS 425- Environmental Microbiology (3)

MCB 410- Cell Biology (3)

MCB 422- Problem Solving with Genetic Tools (3)

MIC 329A- Microbial Diversity (3)

Comments

The following electives have not been offered recently, but are approved if available on the Schedule of Classes

ACBS 310- Living in Symbiosis (3)

ACBS 395A- An ACBS Guide (1) - This course has been offered recently, but priority enrollment is limited to ANS/VSC majors.

ACBS 403L- Parasitology Laboratory (1)

ACBS 466- Principles of Disease (3)

ACBS 467- Computation in Biomedicine (3)

ECOL 320H- Genetics, honors section (3)

PLP 427L- General Mycology Lab (2)

PLS 456- Topics in Biotechnology (3)





OF ARIZONA BIOMEDICAL SCIENCES				
Fall		Spring		
Fall		Spring		
Fall		Spring		
Fall		Spring		