

Physiology BACHELOR OF SCIENCE IN HEALTH SCIENCES (BSHS) – PHYSIOLOGY AND MEDICAL SCIENCES

For students entering in the 2025 – 2026 academic year

Schedule an advising appointment online: https://ua-trellis.force.com/uastudent/s/

Sample 4-year plans can be found at: https://physiology.arizona.edu/undergraduate-students/undergraduate-program/curriculum-guides-planning-tools

UNIVERSITY REQUIREMENTS			
University Composition Requirement	(3-6 units)	PHYSIOLOGY AND MEDICAL SCIENCES MAJOR (36 units t	otal)
ENGL 101 First-Year Composition	3	Required Courses (14 Units)	
ENGL 102 First-Year Composition*	3 3	PSIO 201 Human Anatomy & Physio I (F, SP, SSI) 4	
OR ENGL 109H First-Year Composition Honors*	3	PSIO 202 Human Anatomy & Physio II (F, SP, SSII) 4	
*Grade of B or better required		PSIO 303 Integrative Cellular Physio (F only) 3	
		PSIO 305 Integrative System Physio (SP only) 3	-
Mathematics Requirements 2 courses required	(6-8 units)		
1) Calculus I <u>OR</u> Mathematics of Biological Systems		*Students must complete PSIO 201 (with a C or better),	
MATH 122a and MATH 122b	1/4	and PSIO 202 (with a C or better) before being eligible to enr	oll
OR MATH 125	3	in any 300 and 400-level PSIO courses	
OR MATH 119A	4	•	
2) Calculus II or Biostatistics		Medical Sciences (22 Unit	ts)
MATH 129	3	Emphasis Requirements	,
OR MATH 263 or BIOS 376 or ECOL 379	3	Emphasis negaliements	
Second Language	(0-8 units)	I. Choose two of the following courses:	(6 Units)
Complete <u>one</u> of the following:	(U-O units)	PSIO 101 Tackling Physiological Topics in Today's Society (SP)	3
A) Complete courses through 2 nd semest	ter level	PSIO 411 Scientific Methods and Professional Ethics (F)	3
B) Pass a language proficiency exam at 2 nd semester level		PSIO 420 Exercise Physiology (F)	3
b) rass a language proficiency examat 2	. Semester level	PSIO 427 Metabolism and Disease	3
General Education		PSIO 429 Muscle Physiology (F/SP)	3
Exploring Perspectives	(12 units)	PSIO 431 Physiology of the Immune System (F, SP)	3
exploring Perspectives	(12 dilits)	PSIO 441 Musculoskeletal Kinesiology (F/SP)	3
Artist		PSIO 442 Biomechanics of Human Movement (SP)	3
	3	PSIO 450 Respiratory Physiology (SP)	3
Humanist		PSIO 452 Digestive Physiology (F)	3
	3	PSIO 465 Neurophysiology (SP)	3
Social Scientist		PSIO 467 Endocrine Physiology (F)	3
	3	PSIO 469 Reproductive Physiology (SP)	3
Natural Scientist		PSIO 485 Cardiovascular Physiology (F)	3
	3	PSIO 487 Physiology of Aging (F)	3
		PSIO 489 Current Topics in Physiology (SP)	3
Building Connections	(9 units)	n ol a fall till t	(6.11.21.3
	3	II. Choose two of the following courses:	(6 Units)
	3	CMM 401 Gross Anatomy (SS)	3
	3	CMM 410 Human Histology: Intro to Pathology (SS)	3
		CMM 465A Fundamentals of Light Microscopy (SP)	3
UNIV 101 – Intro to Gen Ed Experience	1	IMB 401 Medical Microbiology and Immunology (SP)	3
UNIV 301 – Gen Ed Portfolio	1	PCOL 434 Pharmacology of Sex (SP)	3
		PHCL 412 Introduction to Pharmacology (F)	3
Mid-Career Writing Assessment		PHCL 422 Introduction to Toxicology *offerings vary	3
Satisfied by a grade of A or B in ENGL 102 or 109H		PHCL 430 Pain Neuropharmacology (F) PHCL 442 Human Performance Pharmacology (F)	2 <u></u>
		*Course offerings subject to change.	3
SCIENCE REQUIREMENTS	(35 units)		(10 units)
CHEM 151 General Chemistry I	4	Choose any upper-division electives from major elective list (see	•
CHEM 152 General Chemistry II	4	checklist of elective options). 6 of the 10 units must be lecture-st	-
CHEM 241a Organic Chemistry I Lecture	3	the remaining 4 units can come from independent study, researc	•
CHEM 243a Organic Chemistry I Lab	1	or preceptorship units or additional lecture courses.	en, memorsinp
CHEM 241b Organic Chemistry II Lecture	3	or preceptorship units or additional rectare courses.	
CHEM 243b Organic Chemistry II Lab	1	*Students in the Honors College can use 6 units of PSIO 498H tov	wards the 10
MCB 181R Introductory Biology I Lecture MCB 181L Introductory Biology I Lab	3 1	additional elective units. The remaining 4 units must be lecture-s	
ECOL 182R Introductory Biology II Lecture	3	Elective course	1-4
ECOL 182L Introductory Biology II Lab	1	Elective course	1-4
PHYS 110 Introductory Physics I	4	Elective course	1-4
PHYS 111 Introductory Physics II	4	Elective course	1-4
BIOC 384 Foundations in Biochemistry			$\overline{}$
OR BIOC 385 Metabolic Biochemistry	3	Total Units for degree: 120 units	all
OR ACBS 445 Nutritional PSIO + Metabolic I	BIOC	Required: Minimum of 42 units of upper-division credit (a courses numbered 300-499). The major coursework could	I
		provide 23 of these units; however, the remaining 19 units	I
		up to the student through additional PSIO Major Electives	
		Research or Internship units, an optional minor, or genera	I

Note: Required courses may not be taken for Pass/Fail; however, exceptions are: PSIO 391, 399, and 499.

elective courses.



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Major Elective Course List

	Lecture Courses	Other Courses (Research, Internships, Independent		
		Study, Thesis, Preceptorship)		
PSIO 101	Tackling Physiological Topics (First-year Spring Semester)	PSIO 391	Preceptorship	
PSIO 195	Freshman/Sophomore Colloquium	PSIO 391H	Honors Student Preceptorship	
PSIO 295H	Introduction to Honors in Physiology	PSIO 393	PSIO Peer Mentorship	
PSIO 295R	Introduction to the Scientific Methods and Research	PSIO 399	Independent Study	
PSIO 395A	PhysioConnects A	PSIO 399H	Honors Independent Study	
PSIO 395B	PhysioConnects B	PSIO 492	Directed Research	
PSIO 404	Advanced Topics in Cellular Physiology	PSIO 496R	Current Research in	
PSIO 411	Scientific Methods and Professional Ethics		Physiology and Biomedical	
PSIO 420	Exercise and Environmental Physiology		Sciences	
PSIO 425	Measurement and Evaluation of Physiological Function	PSIO 498H	Honors Thesis	
PSIO 426	Extreme Physiology	PSIO 499	Independent Study	
PSIO 427	Metabolism & Disease	PSIO 499H	Honors Independent Study	
PSIO 429	Muscle Physiology			
PSIO 431	Physiology of the Immune System			
PSIO 441	Musculoskeletal Kinesiology			
PSIO 442	Biomechanics of Human Movement			
PSIO 450	Respiratory Physiology			
PSIO 452	Digestive Physiology			
PSIO 465	Neurophysiology			
PSIO 467	Endocrine Physiology			
PSIO 469	Human Reproductive Physiology			
PSIO 472	Quantitative Modeling of Biological Systems			
PSIO 484	Cardiovascular Muscle Biology and Disease			
PSIO 485	Cardiovascular Physiology			
PSIO 487	Physiology of Aging			
PSIO 489	Current Topics in Physiology			
PSIO 495H	Senior Honors Thesis Preparation			
PSIO 495K	Inflammation and Disease			
PSIO 495M	Musculoskeletal Physiology			
PSIO 495S	Sex Matters in Medicine			
PSIO 495T	Topics in Physiology			
CMM 401	Human Gross Anatomy			
CMM 410	Human Histology: An Introduction to Pathology			
CMM 465	Fundamentals of Light Microscopy and Electronic Imaging			
ECOL 320	Genetics			
FCM 201	Being a Health Care Professional: An Overview			
IMB 401	Medical Microbiology and Immunology			
NSC 308	Nutrition and Metabolism			
NSC 445	Assessment and Regulation of Human Body Composition			
NURS 493	K-8 Health Connectors Internship			
MCB 304	Molecular Genetics			
MCB 325	Biology of Cancer			
PATH 415	Mechanisms in Human Disease			
PATH 416	The Nature of Disease: Diseases of Organ Systems			
PCOL 320	What's Your Poison? Toxicology of Substances that Surround Us			
PCOL 434	Pharmacology of Sex			
PCOL 436	Cardiovascular Pharmacology			
PHCL 412	Introduction to Pharmacology			
PHCL 422	Introduction to Toxicology			
PHCL 430	Pain Pharmacology			
PHCL 442	Human Performance Pharmacology			
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