

OR BIOC 385 Metabolic Biochemistry

OR ACBS 445 Nutritional PSIO + Metabolic BIOC

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/
4-year plans can be found at: https://physiology.arizona.edu/education/undergraduate/physiology-major/links

UNIVERSITY REQUIREMENTS			
University Composition Requirement	(3-6 units)	PHYSIOLOGY AND MEDICAL SCIENCES MAJOR (3	
ENGL 101 First-Year Composition	3	Required Courses	(14 Units)
ENGL 102 First-Year Composition*	3	PSIO 201 Human Anatomy & Physio I (F, SP, SSI)	4
OR ENGL 109H First-Year Composition Honors		PSIO 202 Human Anatomy & Physio II (F, SP, SSII)	4
*Grade of B or bette	•	PSIO 303 Integrative Cellular Physio (F only)	3
Mathematics Requirements – 2 courses requ		PSIO 305 Integrative System Physio (SP only)	3
1) Calculus I <u>or</u> Mathematics of the Biological		***	
MATH 122a and MATH 122b	1/4	*Students must complete PSIO 201 (with a C or bet	
OR MATH 125	3	and PSIO 202 (with a C or better) before being eligil	ble to enroll
OR MATH 119a	4	in any 300 and 400-level PSIO courses	
2) Calculus II or Biostatistics	_		
MATH 129	3	Exercise and Extreme Physiology	(22 Units)
OR MATH 263 or BIOS 376 or ECOL	3/9 3	Emphasis Requirements	
Second Language	(0-8 units)	I. Required Core Course (Choose one course)	(3 Units)
Complete <u>one</u> of the following:			
A) Complete courses through 2 nd se		PSIO 420 Exercise Physiology (F)	3
B) Pass a language proficiency exan	n at 2 nd semester level	PSIO 441 Musculoskeletal Kinesiology (F/SP)	3
General Education			
Exploring Perspectives	(12 units)	Complete nine units from the following:	(9 Units)
Artist	•	PSIO 420 Exercise Physiology (F)	3
	3	PSIO 425 Meas & Eval of Physiological Function (SP)	3 <u></u>
	_	PSIO 426 Extreme Physiology (F)	3
Humanist		PSIO 429 Muscle Physiology (F/SP)	3
numanist	2	PSIO 441 Musculoskeletal Kinesiology (F/SP)	3
	3	PSIO 442 Biomechanics of Human Movement (SP)	3
Social Scientist		PSIO 465 Neurophysiology (SP)	3
Social Scientist	3	PSIO 485 Cardiovascular Physiology (F)	3
	_ 3	PSIO 487 Physiology of Aging (F)	3
Natural Scientist			3
Tratara Scientist	2	PHCL 430 Pain Pharmacology (F)	2
	<u> </u>	*Course offerings subject to change	?
Building Connections	(9 units)	II. Complete 10 additional major elective units	(10 units)
bunding connections	• •	Choose any upper-division electives from major elec	ctive list (see back for
	3 _ 3 _ 3	checklist of elective options). 6 of the 10 units must	be lecture-style
		courses; the remaining 4 units can come from indep	
	_	research, mentorship or preceptorship units or addit	• • • • • • • • • • • • • • • • • • • •
UNIV 101 – Intro to Gen Ed Experience	1	, , , ,	
UNIV 301 – Gen Ed Portfolio	1	*Students in the Honors College can use 6 units of P.	SIO 498H towards
		the 10 additional elective units. The remaining 4 un	
Mid-Career Writing Assessment		style coursework.	
Satisfied by a grade of A or B in ENGL 102 or 3	109H	Style coursework.	
		Elective course	1-4
SCIENCE REQUIREMENTS	(35 units)	Elective course	1-4
CHEM 151 General Chemistry I	4	Elective course	1-4
CHEM 152 General Chemistry II	4	Elective course	1-4
CHEM 241a Organic Chemistry I Lecture	3		
CHEM 241h Organic Chemistry II Locture	1		
CHEM 242h Organic Chemistry II Lecture	3	Total Unite for degree : 420 :it-	
CHEM 243b Organic Chemistry II Lab MCB 181R Introductory Biology I Lecture	1 3	Total Units for degree: 120 units	•
MCB 181L Introductory Biology I Lecture		Required: Minimum of 42 units of upper division or	radit (all courses
ECOL 182R Introductory Biology II Lecture	1 3	Required: Minimum of 42 units of upper-division or numbered 300-499). The major coursework could p	
ECOL 1821 Introductory Biology II Lab	1	units; however, the remaining 19 units are up to the	
PHYS 110 Introductory Physics I	4	additional PSIO Major Electives, Research or Internsh	-
PHYS 111 Introductory Physics II	4	minor, or general elective courses.	
BIOC 384 Foundations in Biochemistry		. , . 0	

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



BACHELOR OF SCIENCE IN HEALTH SCIENCES (BSHS) – PHYSIOLOGY AND MEDICAL SCIENCES Major Electives 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			
MCB 304	Molecular Genetics			
MCB 325	Biology of Cancer			
NSC 308	Nutrition and Metabolism			
NSC 445	Assessment and Regulation of Human Body Composition			
NURS 493	K-8 Health Connectors Internship			
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 434	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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