

BIOC 384 Foundations in Biochemistry 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 spring 2022 semester and beyond

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			1 -2-1-1-1-1-1
University Composition Requirement	(3-6 units)	PHYSIOLOGY AND MEDICAL SCIENCES MAJOR	
ENGL 101 First-Year Composition	3	Required Courses	(14 Units)
ENGL 102 First-Year Composition*	3	DCIO 20411 A	4
OR ENGL 109H First-Year Composition Honors*		PSIO 201 Human Anatomy & Physio I (F, SP, SSI)	4
*Grade of B or better	•	PSIO 202 Human Anatomy & Physio II (F, SP, SSII)	4
Mathematics Requirements – 2 courses required (6-8 units)		PSIO 303 Integrative Cellular Physio (F only) 3	
1) Calculus I <u>or</u> Mathematics of the Biological MATH 122a and MATH 122b	1/4	PSIO 305 Integrative System Physio (SP only)	3
OR MATH 125	3	*Students must complete PSIO 201 (with a C or b	etter),
OR MATH 119a	4	and PSIO 202 (with a C or better) before being eli	gible to enroll
2) Calculus II or Biostatistics		in any 300 and 400-level PSIO courses	
MATH 129	3		
OR MATH 263 or BIOS 376 or ECOL 3	379 3	Exercise and Extreme Physiology Emphasis Requirements	(22 Units)
Second Language	(0-8 units)	Emphasis Regulierieries	
Complete <u>one</u> of the following:	, ,	I. Required Core Course (Choose one course)	(3 Units)
A) Complete courses through 2 nd ser	nester level	i. Required core course (choose one course)	(5 011113)
B) Pass a language proficiency exam		PSIO 420 Exercise Physiology (F)	3
		PSIO 441 Musculoskeletal Kinesiology (F/SP)	3
General Education			
Exploring Perspectives	(12 units)	II. Complete nine units from the following:	(9 Units)
Artist		PSIO 425 Meas & Eval of Physiological Function (S	P) 3
	3	PSIO 426 Extreme Physiology (F)	3
		PSIO 429 Muscle Physiology (F/SP)	3
Humanist		PSIO 441 Musculoskeletal Kinesiology (F/SP)	3
	3	PSIO 442 Biomechanics of Human Movement (SP)	3
	<u> </u>	PSIO 465 Neurophysiology (SP)	3
Social Scientist		PSIO 485 Cardiovascular Physiology (F)	diovascular Physiology (F) 3
	3	PSIO 487 Physiology of Aging (F)	3
		PSIO 495M Musculoskeletal Physiology (SP)	2
Natural Scientist		PHCL 430 Pain Pharmacology (F)	2
	3	*Course offerings subject to chan	ige .
Building Connections	(9 units)	III. Complete 10 additional major elective unit	s (10 units)
building connections	•	Choose any upper-division electives from major el	ective list (see back for
	_ 3 _ 3	checklist of elective options). 6 of the 10 units mu	
	_ 3	courses; the remaining 4 units can come from independent study,	
		research, mentorship or preceptorship units or add	
UNIV 101 – Intro to Gen Ed Experience	1		
UNIV 301 – Gen Ed Portfolio	1 1	*Students in the Honors College can use 6 units of	PSIO 498H towards
		the 10 additional elective units.	
Mid-Career Writing Assessment			
Satisfied by a grade of A or B in ENGL 102 or 10	D9H	Elective course	1-4
		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	<u> </u>
CHEM 241a Organic Chemistry I Lecture	3		
CHEM 243a Organic Chemistry I Lab	1		
CHEM 241b Organic Chemistry II Lecture	3		
CHEM 243b Organic Chemistry II Lab	1	Total Units for degree: 120 un	its
MCB 181R Introductory Biology I Lecture	3		
MCB 181L Introductory Biology I Lab	1	Required: Minimum of 42 units of upper-division	,
ECOL 182R Introductory Biology II Lecture	3	numbered 300-499). The major coursework could	•
ECOL 182L Introductory Biology II Lab PHYS 102 Introductory Physics I Lecture	1 3	units; however, the remaining 19 units are up to the	_
PHYS 181 Introductory Physics I Lecture PHYS 181 Introductory Physics I Lab	1	additional PSIO Major Electives, Research or Intern	iship units, an optional
PHYS 103 Introductory Physics II Lecture	3	minor, or general elective courses.	
PHYS 182 Introductory Physics II Lah	1	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 472	Cardiovascular Muscle Biology and Disease		
PSIO 485	Cardiovascular Musicle Biology and Disease		
PSIO 483	Physiology of Aging		
PSIO 489	Current Topics in Physiology		
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PSIO 495H	Senior Honors Thesis Preparation Inflammation and Disease		
PSIO 495K			
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		
PHCL 412	Introduction to Pharmacology		
PHCL 422	Introduction to Toxicology		
PHCL 430	Pain Pharmacology		
PHCL 442	Human Performance Pharmacology		
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