B.S. IN HUMAN BIOENERGETICS

Code	Title	Credits	
Major in Human Bioener	getics (B.S.)		
Applied Health Science Core			
AHS 100	Foundations in Applied Health Science	1	
AHS 170	Applied Nutrition	2	
AHS 250M	Statistics and Research Methods in Applied Health Sciences	4	
AHS 370	Functional Human Nutrition	4	
AHS 375	Functional Anatomy	4	
AHS 379	Integrative Human Physiology	4	
AHS 393	Literature Review in Applied Health Sciences ¹	2	
AHS 398	Physiological Assessment Laboratory ¹	1	
AHS 399	Physiological Assessment ¹	3	
AHS 445	Advanced Laboratory Techniques in Applied Health Sciences	4	
AHS 481	Internship in Applied Health Sciences	2	
AHS 494	Research in Applied Health Sciences	1	
AHS 495	Applied Health Sciences Symposium	2	
Interdisciplinary Core			
Choose two of the follow	<i>v</i> ing courses:	8	
BIO 120 & BIO 120D	Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab		
BIO 122 & BIO 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab		
BIO 124 & BIO 124D	Integrative Biology: Genes, Cells, Change and Integrative Biology: Genes, Cells, Change Lab		
BIO 128 & BIO 128D	Integrative Biology: Metabolism, Energy, Biodiversity and Integrative Biology: Metabolism, Energy, Biodiversity Lab		
BIO 214 & BIO 215	Human Anatomy and Human Anatomy Lab	4	
BIO 216 & BIO 217	Human Physiology and Human Physiology Lab ²	4	
CHE 113 & CHE 113D	General Chemistry and General Chemistry Lab	4	
CHE 214 & CHE 215	General Chemistry II and General Chemistry II Lab	4	
CHE 224 & CHE 225	Organic Chemistry I and Organic Chemistry I Lab	4	
PSY 101	Introduction to Psychology I	2	
PSY 102	Introduction to Psychology II	2	
Choose 12 credits from the following course sequences:		12	
BIO 234 & BIO 235	Microbiology and Microbiology Lab ⁵		
BIO 332 & BIO 333	Genetics and Genetics Lab ¹⁶		
BIO 338 & BIO 339	Endocrinology and Endocrinology Lab ⁶		

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BIO 350	Clinical Pathophysiology ⁷	
BIO 354 & BIO 355	Cell Biology and Cell Biology Lab ⁸	
BIO 396 & BIO 397	Molecular Biology and Molecular Biology Lab ⁹	
CHE 226 & CHE 227	Organic Chemistry II and Organic Chemistry II Lab	
CHE 304 & CHE 397	Essentials of Biochemistry and Biochemistry II Lab ^{10, 11, 14, 18}	
or CHE 388 & CHE 389 & CHE 396 & CHE 397	Biochemistry I and Biochemistry I Lab and Biochemistry II and Biochemistry II Lab	
MAT 121M	Precalculus	
MAT 124M	Calculus 1 ³	
PHY 202 & PHY 202D	Introductory Physics I and Introductory Physics I Lab ⁴	
or PHY 292 & PHY 292D	General Physics I and General Physics I Lab	
PHY 206 & PHY 207	Introductory Physics II and Introductory Physics II Lab ^{12, 13, 17}	
or PHY 296 & PHY 297	General Physics II and General Physics II Lab	
PSY 203	Lifespan Development	
or PSY 300	Psychopathology	
Code Major ¹⁵	Title	Credits 78
General Education *		40-48
Electives		0-4
Total Credits	1	22-126

¹ AHS 001 is a prererequisite for this course

- ² BIO 104/BIO 104D, BIO 120/BIO 120D, BIO 124/BIO 124D, NSC 130/NSC 130D, or BIO 218 is a prerequisite for this course.
- ³ Placement at MAT 124M on the Math and Computer Science department placement exam; MAT 121M, concurrent enrollment in MAT 122, or equivalent high school or college course(s) is a prerequisite for this course.
- ⁴ MAT 121M or MAT 124M is a prerequisite for this course.
- ⁵ BIO 218 or BIO 120/BIO 120D is a prerequisite for this course.
- ⁶ BIO 218 or NSC 130/NSC 130D or BIO 120/BIO 120D and BIO 122/BIO 122D are prerequisites for this course.
- ⁷ Acceptance into the nursing program or consent of instructor is a prerequisite for this course and NUR 202 and NUR 302 are corequisites for this course.
- ⁸ BIO 332/BIO 333 or BIO 218 (may be taken concurrently) or PSY 101 and NSC 130/NSC 130D are prerequisites for this course.
- ⁹ BIO 124/BIO 124D and BIO 128/BIO 128D are prerequisites for this course.
- ¹⁰ CHE 226/CHE 227 and BIO 120/BIO 120D or BIO 124/BIO 124D are prerequisites for CHE 388/CHE 389.
- ¹¹ Students requiring CHE 397 for their degree will require an override to take this course concurrently with CHE 304.

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- ¹² MAT 125 and PHY 292/PHY 292D are prerequisites for PHY 296/PHY 297.
- ¹³ PHY 202/PHY 202D is a prerequisite for PHY 206/PHY 207.
- ¹⁴ BIO 120/BIO 120D and CHE 224/CHE 225 or BIO 124/BIO 124D are prerequisites for CHE 304.
- ¹⁵ Students must earn a C or higher in each course in the major (AHS, BIO, CHE, MAT, PHY, PSY).
- ¹⁶ BIO 218 (may be taken concurrently) or BIO 124/BIO 124D is a prerequisite for this course.
- ¹⁷ MAT 124M or Consent of instructor is a prerequisite for this course.
- ¹⁸ BIO 120/BIO 120D or BIO 124/BIO 124D and CHE 226/CHE 227 are prerequisites for CHE 388/CHE 389.
- * Courses whose number is followed by a letter fulfill a General Education requirement.