

# B.S. IN HUMAN BIOENERGETICS

Code	Title	Credits
<b>Major in Human Bioenergetics (B.S.)</b>		
<b>Applied Health Science Core</b>		
AHS 100	Foundations in Applied Health Science	1
AHS 170	Applied Nutrition	3
AHS 247	Motor Development and Learning	3
AHS 250M	Statistics and Research Methods in Applied Health Sciences	3
AHS 370	Functional Human Nutrition	3
AHS 375 & AHS 376	Functional Anatomy and Functional Anatomy Lab	4
AHS 379 & AHS 380	Integrative Human Physiology and Integrative Human Physiology Lab	4
AHS 393	Literature Review in Biokinetics <sup>1</sup>	1
AHS 399	Physiological Assessment <sup>1</sup>	3
AHS 445	Advanced Laboratory Techniques in Biokinetics	3
AHS 481	Internship in Applied Health Sciences	1-4
AHS 494	Biokinetics Research	1
AHS 495	Biokinetics Symposium	1
<b>Interdisciplinary Core</b>		
PSY 100	Introduction to Psychology	3
BIO 124 & BIO 124D	Integrative Biology: Genes, Cells, Change and Integrative Biology: Genes, Cells, Change Lab	4
BIO 128 & BIO 128D	Integrative Biology: Metabolism, Energy, Biodiversity and Integrative Biology: Metabolism, Energy, Biodiversity Lab	4
BIO 214 & BIO 215	Human Anatomy and Human Anatomy Lab	4
BIO 216 & BIO 217	Human Physiology and Human Physiology Lab <sup>2</sup>	4
CHE 113 & CHE 113D	General Chemistry I and General Chemistry I 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
Choose one of the following course sequences:		4
PHY 202 & PHY 202D	Introductory Physics I and Introductory Physics I Lab <sup>3</sup>	
PHY 292 & PHY 292D	General Physics I and General Physics I Lab <sup>4</sup>	
Choose 12 credits from the following course sequences:		12
BIO 234 & BIO 235	Microbiology and Microbiology Lab <sup>5</sup>	
BIO 332 & BIO 333	Genetics and Genetics Lab <sup>5</sup>	

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BIO 338 & BIO 339	Endocrinology and Endocrinology Lab <sup>6</sup>
BIO 350	Clinical Pathophysiology <sup>7</sup>
BIO 354 & BIO 355	Cell Biology and Cell Biology Lab <sup>8</sup>
BIO 396 & BIO 397	Molecular Biology and Molecular Biology Lab <sup>9</sup>
CHE 226 & CHE 227	Organic Chemistry II and Organic Chemistry II Lab
CHE 304 & CHE 397	Essentials of Biochemistry and Biochemistry II Lab <sup>10, 11</sup>
or CHE 388 & CHE 389 & CHE 396 & CHE 397	Biochemistry I and Biochemistry I Lab and Biochemistry II and Biochemistry II Lab
PHY 206 & PHY 207	Introductory Physics II and Introductory Physics II Lab <sup>12</sup>
or PHY 296 & PHY 297	General Physics II and General Physics II Lab
PSY 203 or PSY 300	Lifespan Development Psychopathology

Code	Title	Credits
Major		78-81
General Education		40-41
Electives		1-3
<b>Total Credits</b>		<b>122</b>

- <sup>1</sup> AHS 398 is a corequisite for this course
- <sup>2</sup> BIO 104/BIO 104D, BIO 120/BIO 120D, or BIO 218 is a prerequisite for this course.
- <sup>3</sup> MAT 123M, MAT 124M, or successful completion of the Math and Computer Science department placement exam requirements is a prerequisite for this course.
- <sup>4</sup> MAT 124M is a prerequisite for this course.
- <sup>5</sup> BIO 218 or BIO 120/BIO 120D is a prerequisite for this course.
- <sup>6</sup> BIO 218 or NSC 130/NSC 130D or BIO 120/BIO 120D and BIO 122/BIO 122D are prerequisites for this course.
- <sup>7</sup> Acceptance into the nursing program or consent of instructor is a prerequisite for this course.
- <sup>8</sup> BIO 332/BIO 333 or both PSY 100 and NSC 130/NSC 130D is a prerequisite for this course.
- <sup>9</sup> BIO 332/BIO 333 and CHE 226/CHE 227 are prerequisites for this course.
- <sup>10</sup> CHE 226/CHE 227 is a prerequisite for CHE 388/CHE 389.
- <sup>11</sup> Students requiring CHE 397 for their degree will require an override to take this course concurrently with CHE 304.
- <sup>12</sup> MAT 125 is a prerequisite for PHY 296/PHY 297.  
Courses whose number is followed by a letter fulfill a General Education requirement.