BS IN HEALTH SCIENCES

The University of Toledo offers a bachelor of science degree in health sciences. This degree requires 120 credit hours for graduation. Health sciences provides students with an introduction to a variety of health professions and broad prerequisite knowledge. Through its mix of sciences and interdisciplinary core courses, the degree offers students rigorous and diverse content that will prepare them for success in health and healthcare related careers or professional programs upon graduation. The curriculum offers several concentrations that include the most commonly required prerequisite courses as well as contemporary knowledge, experiences, and perspectives that will prepare students to provide high quality care to future patients and communities.

The Human Performance and Fitness Promotion concentration is specifically designed to give students an in depth understanding of how the human body responds and adapts to exercise and how exercise can be used to promote health and wellness. As our healthcare systems evolve and extend their focus beyond treating disease and illness to treating people and communities and preventing disease and disability, the inclusion of professionals trained in the science of exercise will be important. Graduates will be eligible to sit for certification programs offered by such organizations as the American College of Sports Medicine or the National Strength and Conditioning Association.

The Pre-Athletic Training and Pre-Physical Therapy concentration prepares students for admission to graduate entry-level programs in athletic training or physical therapy.

The Pre-Medical Professions concentration prepares students for admission into medical school and other health professions including dentistry, optometry, transplantation and donation sciences, and veterinary science.

The Pre-Physician Assistant concentration is designed for students pursuing admission to physician assistant graduate programs.

- Health Sciences Human Performance & Fitness Promotion Concentration, BS (p. 1)
- Health Sciences Pre-Athletic Training and Pre-Physical Therapy Concentration, BS (p. 2)
- Health Sciences Pre-Medical Professions Concentration, BS (p. 3)
- Health Sciences Pre-Physician Assistant Concentration, BS (n. 3)

Health Sciences - Human Performance & Fitness Promotion Concentration, BS Requirements

Code	Title	Hours
Skills Area (12-13	3 hours)	12-13
ENGL 1110	College Composition I	
ENGL 1130	College Composition II: Academic Disciplines A Discourse	nd
MATH 1340	College Algebra And Trigonometry	

or MATH 1	31College Algebra	
& MATH 1:	and Trigonometry	
HHS 1010	Introduction to Health Sciences I with Orientation	
Code		Hours
Social Sciences requirement)	(6 hours) (satisfies social sciences core curriculum	6
SOC 1010	Introduction To Sociology	
PSY 1010	Principles Of Psychology	
Code		Hours
Humanities/Fine	e Arts (6 hours from UToledo Core Curriculum)	6
Code	Title	Hours
Natural Science curriculum requi	s (19 hours) (satisfies natural sciences core irement)	
BIOL 2170	Fundamentals of Life Science: Biomolecules, Cell	s, 4
	and Inheritance	
BIOL 2180	Fundamentals of Life Science Laboratory:	1
CHEM 1230	Biomolecules, Cells, and Inheritance General Chemistry I	4
CHEM 1280	General Chemistry Lab I	1
EXSC 2460	Human Anatomy And Physiology I Lab	1
EXSC 2560	Anatomy and Physiology I	3
PHYS 2070	General Physics I	5
Total Hours		19
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Code		lours 3
Mullicultural Sti	udies (3 hours from UToledo core curriculum)	3
Code		Hours
	Courses (33 hours) C or better	
HHS 1020	Introduction to Health Sciences II C or better	2
HHS 3100	Introduction to Social Determinants of Health ^{C or} better	3
HHS 3600	Foundations of Evidence-Based Practice in Health Science ^{C or better}	n 3
HHS 4100	Foundations of Healthcare Delivery ^{C or better}	3
COUN 3000	Cultural Competence in Health and Human Services Professions ^{C or better}	3
EXSC 2470	Human Anatomy And Physiology II Lab ^{C or better}	1
EXSC 2570	Human Anatomy and Physiol II ^{C or better}	3
EXSC 2580	Human Pathophysiology For Health Care	3
HEAL 1800	Medical Terminology ^{C or better}	3
LGL 4230	Health Care And The Law ^{C or better}	3
PHIL 3370	Medical Ethics ^{C or better}	3
MATH 2600	Introduction To Statistics ^{C or better}	3
Total Hours		33
Code	Title I	Hours
Human Perform	ance Fitness Promotion (29 hours) Concentration	
EXSC 3520	Applied Exercise Physiology ^{C or better}	3
LA3C 3320	rippined Exercises injectory	

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HEAL 4700

EXSC 3680 Sport and Exercise Pharmacology C or better	3		
Cor hetter	3		
EXSC 3830 Principles of Strength Conditioning ^{C or better}	J		
EXSC 3850 Cardiac Dysrhythmia Interpretation ^{C or better}	3		
EXSC 3860 Cardiac Dysrhythmia Lab	1		
EXSC 4830 Principles of Endurance Conditioning ^{C or better}	3		
EXSC 4850 Clinical Exercise Testing ^{C or better}	3		
EXSC 4860 Clinical Exercise Testing Lab ^{C or better}	1		
EXSC 4140 Fitness Internship I ^{C or better}	4		
EXSC 4840 Fitness Internship II C or better	4		
Total Hours	29		
Code Title Ho	urs		
Supplemental Major Course select one (3-4 hours)			

Code	Title	Hours
or EXSC 4540 & EXSC 4550	Applied Biomechanics and Applied Biomechanics Lab	
or EXSC 4640	Neurological And Pathological Foundations Of Rehabilitation	

General Electives to meet 120 credit hours and fulfill upper-level course requirements

Nutritional Science

Health Sciences - Pre-Athletic Training and Pre-Physical Therapy Concentration, BS Requirements

Physical Therapy Concentration, BS Requirements			
Code	Title	Hours	
Skills Area (12-13	hours)		
ENGL 1110	College Composition I	3	
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3	
MATH 1340 or MATH 1320 & MATH 1330	College Algebra And Trigonometry College Algebra and Trigonometry	5	
HHS 1010	Introduction to Health Sciences I with Orientation	1	
Code	Title	Hours	
Social Sciences (6 requirement)	6 hours) (satisfies social sciences core curriculum		
SOC 1010	Introduction To Sociology	3	
PSY 1010	Principles Of Psychology	3	
Code	Title	Hours	
Humanities/Fine Arts (6 hours from UToledo Core Curriculum)			
Code	Title	Hours	
Natural Sciences (19 hours) (satisfies natural sciences core curriculum requirement)			
BIOL 2150	Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation	4	
BIOL 2160	Fundamentals Of Life Science Laboratory: Diversit	ty 1	

Of Life, Evolution And Adaptation

CHEM 1230	General Chemistry I	4
CHEM 1280	General Chemistry Lab I	1
EXSC 2460	Human Anatomy And Physiology I Lab ^{C or better}	1
EXSC 2560	Anatomy and Physiology I C or better	3
PHYS 2070	General Physics I	5
Code	Title	Hours
Multicultural Stu	dies (3 hours from UToledo core curriculum)	
Code	Title	Hours
Required Major C	ourses (33 hours) ^{C or better}	
HHS 1020	Introduction to Health Sciences II C or better	2
HHS 3100	Introduction to Social Determinants of Health $^{\text{C o}}$ better	3
HHS 3600	Foundations of Evidence-Based Practice in Healt Science $^{\rm C\ or\ better}$	h 3
HHS 4100	Foundations of Healthcare Delivery ^{C or better}	3
COUN 3000	Cultural Competence in Health and Human Services Professions ^{C or better}	3
EXSC 2470	Human Anatomy And Physiology II Lab ^{C or better}	1
EXSC 2570	Human Anatomy and Physiol II ^{C or better}	3
EXSC 2580	Human Pathophysiology For Health Care	3
HEAL 1800	Medical Terminology ^{C or better}	3
LGL 4230	Health Care And The Law ^{C or better}	3
PHIL 3370	Medical Ethics C or better	3
MATH 2600	Introduction To Statistics ^{C or better}	3
Code	Title	Hours
Pre-Athletic and	Pre-Physical Therapy (26 hours) Concentration	
BIOL 2170	Fundamentals of Life Science: Biomolecules, Cel and Inheritance	ls, 4
BIOL 2180	Fundamentals of Life Science Laboratory: Biomolecules, Cells, and Inheritance	1
CHEM 1240	General Chemistry II	4
CHEM 1290	General Chemistry Lab II	1
EXSC 3520	Applied Exercise Physiology ^{C or better}	3
EXSC 3530	Applied Exercise Physiology Laboratory C or better	1
EXSC 4540	Applied Biomechanics	3
EXSC 4550	Applied Biomechanics Lab	1
PHYS 2080	General Physics II	5
Select one from t	he following:	3
PSY 2200	Abnormal Psychology	
PSY 2510	Lifespan Developmental Psychology	
PSY 2700	Social Psychology	
General Electives		12
Total Hours		38
Code	Title	Hours
Supplemental Ma	njor Course (select one) 3 hours	
HEAL 4700	Nutritional Science	3



or EXSC 4640	Neurological And Pathological Foundations Of Rehabilitation	
Code	Title	Hours
	to meet 120 credit hours and fulfill upper-level	riouro
course requireme	••	
	es - Pre-Medical Professions n, BS Requirements	
Code		Hours
Skills Area (12-13	B hours)	
ENGL 1110	College Composition I	3
ENGL 1130	College Composition II: Academic Disciplines And Discourse	d 3
MATH 1340	College Algebra And Trigonometry	5
	College Algebra and Trigonometry	
HHS 1010	Introduction to Health Sciences I with Orientation	n 1
Code	Title	Hours
Social Sciences (requirement)	6 hours) (satisfies social sciences core curriculum	1
SOC 1010	Introduction To Sociology	3
PSY 1010	Principles Of Psychology	3
Code	Title	Hours
Humanities/Fine	Arts (6 hours from UToledo Core Curriculum)	
Code	Title	Hours
Code	Title (19 hours) (satisfies natural sciences core	
Code Natural Sciences	Title (19 hours) (satisfies natural sciences core	
Code Natural Sciences curriculum require	Title (19 hours) (satisfies natural sciences core ement) Fundamentals Of Life Science: Diversity Of Life,	Hours 4
Code Natural Sciences curriculum require BIOL 2150	Title (19 hours) (satisfies natural sciences core ement) Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation Fundamentals Of Life Science Laboratory: Divers	Hours 4
Code Natural Sciences curriculum require BIOL 2150 BIOL 2160	Title (19 hours) (satisfies natural sciences core ement) Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation Fundamentals Of Life Science Laboratory: Divers Of Life, Evolution And Adaptation	Hours 4 ity 1
Code Natural Sciences curriculum require BIOL 2150 BIOL 2160 CHEM 1230	Title (19 hours) (satisfies natural sciences core ement) Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation Fundamentals Of Life Science Laboratory: Divers Of Life, Evolution And Adaptation General Chemistry I	Hours 4 ity 1
Code Natural Sciences curriculum require BIOL 2150 BIOL 2160 CHEM 1230 CHEM 1280	Title (19 hours) (satisfies natural sciences core ement) Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation Fundamentals Of Life Science Laboratory: Divers Of Life, Evolution And Adaptation General Chemistry I General Chemistry Lab I	Hours 4 ity 1 4
Code Natural Sciences curriculum require BIOL 2150 BIOL 2160 CHEM 1230 CHEM 1280 EXSC 2460	Title (19 hours) (satisfies natural sciences core ement) Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation Fundamentals Of Life Science Laboratory: Divers Of Life, Evolution And Adaptation General Chemistry I General Chemistry Lab I Human Anatomy And Physiology I Lab	4 ity 1 4 1
Code Natural Sciences curriculum require BIOL 2150 BIOL 2160 CHEM 1230 CHEM 1280 EXSC 2460 EXSC 2560 PHYS 2070 Code	Title (19 hours) (satisfies natural sciences core ement) Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation Fundamentals Of Life Science Laboratory: Divers Of Life, Evolution And Adaptation General Chemistry I General Chemistry Lab I Human Anatomy And Physiology I Lab Anatomy and Physiology I General Physics I Title	4 ity 1 4 1 1 3
Code Natural Sciences curriculum require BIOL 2150 BIOL 2160 CHEM 1230 CHEM 1280 EXSC 2460 EXSC 2560 PHYS 2070 Code	Title (19 hours) (satisfies natural sciences core ement) Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation Fundamentals Of Life Science Laboratory: Divers Of Life, Evolution And Adaptation General Chemistry I General Chemistry Lab I Human Anatomy And Physiology I Lab Anatomy and Physiology I General Physics I	4 ity 1 4 1 3 5
Code Natural Sciences curriculum require BIOL 2150 BIOL 2160 CHEM 1230 CHEM 1280 EXSC 2460 EXSC 2560 PHYS 2070 Code Multicultural Stud	Title (19 hours) (satisfies natural sciences core ement) Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation Fundamentals Of Life Science Laboratory: Divers Of Life, Evolution And Adaptation General Chemistry I General Chemistry Lab I Human Anatomy And Physiology I Lab Anatomy and Physiology I General Physics I Title dies (3 hours from UToledo core curriculum)	4 ity 1 4 1 3 5
Code Natural Sciences curriculum require BIOL 2150 BIOL 2160 CHEM 1230 CHEM 1280 EXSC 2460 EXSC 2560 PHYS 2070 Code Multicultural Stud Code Required Major Co	Title (19 hours) (satisfies natural sciences core ement) Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation Fundamentals Of Life Science Laboratory: Divers Of Life, Evolution And Adaptation General Chemistry I General Chemistry Lab I Human Anatomy And Physiology I Lab Anatomy and Physiology I General Physics I Title dies (3 hours from UToledo core curriculum) Title ourses (33 hours)	Hours 4 ity 1 4 1 3 5 Hours
Code Natural Sciences curriculum require BIOL 2150 BIOL 2160 CHEM 1230 CHEM 1280 EXSC 2460 EXSC 2560 PHYS 2070 Code Multicultural Stud Code Required Major Ce HHS 1020	Title (19 hours) (satisfies natural sciences core ement) Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation Fundamentals Of Life Science Laboratory: Divers Of Life, Evolution And Adaptation General Chemistry I General Chemistry Lab I Human Anatomy And Physiology I Lab Anatomy and Physiology I General Physics I Title dies (3 hours from UToledo core curriculum) Title ourses (33 hours) Introduction to Health Sciences II Corbetter	Hours 4 ity 1 4 1 3 5 Hours
Code Natural Sciences curriculum require BIOL 2150 BIOL 2160 CHEM 1230 CHEM 1280 EXSC 2460 EXSC 2560 PHYS 2070 Code Multicultural Stud Code Required Major Co	Title (19 hours) (satisfies natural sciences core ement) Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation Fundamentals Of Life Science Laboratory: Divers Of Life, Evolution And Adaptation General Chemistry I General Chemistry Lab I Human Anatomy And Physiology I Lab Anatomy and Physiology I General Physics I Title dies (3 hours from UToledo core curriculum) Title ourses (33 hours)	Hours 4 ity 1 4 1 3 5 Hours
Code Natural Sciences curriculum require BIOL 2150 BIOL 2160 CHEM 1230 CHEM 1280 EXSC 2460 EXSC 2560 PHYS 2070 Code Multicultural Stud Code Required Major Celebrate Science Scienc	Title (19 hours) (satisfies natural sciences core ement) Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation Fundamentals Of Life Science Laboratory: Divers Of Life, Evolution And Adaptation General Chemistry I General Chemistry Lab I Human Anatomy And Physiology I Lab Anatomy and Physiology I General Physics I Title dies (3 hours from UToledo core curriculum) Title ourses (33 hours) Introduction to Health Sciences II Corbetter Introduction to Social Determinants of Health	Hours 4 ity 1 4 1 1 3 5 Hours 4 2 7 3

COUN 3000	Cultural Competence in Health and Human Services Professions ^{C or better}	3
EXSC 2470	Human Anatomy And Physiology II Lab ^{C or better}	1
EXSC 2570	Human Anatomy and Physiol II ^{C or better}	3
EXSC 2580	Human Pathophysiology For Health Care	3
HEAL 1800	Medical Terminology ^{C or better}	3
LGL 4230	Health Care And The Law ^{C or better}	3
PHIL 3370	Medical Ethics ^{C or better}	3
MATH 2600	Introduction To Statistics ^{C or better}	3
Total Hours		33
Code	Title	Hours
Pre-Medical (26 h	nours) Concentration	
BIOL 2170	Fundamentals of Life Science: Biomolecules, Cel and Inheritance	ls, 4
BIOL 2180	Fundamentals of Life Science Laboratory: Biomolecules, Cells, and Inheritance	1
CHEM 1240	General Chemistry II	4
CHEM 1290	General Chemistry Lab II	1
CHEM 2410	Organic Chemistry I	3
CHEM 2420	Organic Chemistry II	3
CHEM 2460	Organic Chemistry Laboratory I for Non-Majors	1
CHEM 2470	Organic Chemistry Laboratory II for Non-Majors	1
PHYS 2080	General Physics II	5
CHEM 3510	Biochemistry I	3
Total Hours		26
Code	Title	Hours
Supplemental Ma	jor Course (select one) 3-4 hours	
HEAL 4700	Nutritional Science	3
or EXSC 3520 & EXSC 3530	Applied Exercise Physiology and Applied Exercise Physiology Laboratory	

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HEAL 4700	Nutritional Science	3
or EXSC 3520 & EXSC 3530	Applied Exercise Physiology and Applied Exercise Physiology Laboratory	
or EXSC 4540 & EXSC 4550	Applied Biomechanics and Applied Biomechanics Lab	
or EXSC 4640	Neurological And Pathological Foundations Of Rehabilitation	

Code Title Hours
General Electives to meet 120 credit hours and fulfill upper-level
course requirements

Health Sciences - Pre-Physician Assistant Concentration, BS Requirements

Code	Title	Hours
Skills Area (12-13	hours)	
ENGL 1110	College Composition I	3
ENGL 1130	College Composition II: Academic Disciplines And Discourse	d 3
MATH 1340	College Algebra And Trigonometry	5



BS in Health Sciences

or MATH 1320 & MATH 1330	College Algebra and Trigonometry	
HHS 1010	Introduction to Health Sciences I with Orientation	1
Code	Title H	ours
Social Sciences (6 hours) (satisfies social sciences core curriculum	
requirement)	o nouro, (ounones social sociales social surriculum	
SOC 1010	Introduction To Sociology	3
PSY 1010	Principles Of Psychology	3
Code	Title H	ours
Humanities/Fine	Arts (6 hours from UToledo Core Curriculum)	
Code	Title H	ours
Natural Sciences	(19 hours) (satisfies natural sciences core	
curriculum require	,	
BIOL 2150	Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation	4
BIOL 2160	Fundamentals Of Life Science Laboratory: Diversity Of Life, Evolution And Adaptation	/ 1
CHEM 1230	General Chemistry I	4
CHEM 1280	General Chemistry Lab I	1
EXSC 2460	Human Anatomy And Physiology I Lab ^{B-} or better for PA program	1
EXSC 2560	Anatomy and Physiology I B- or better for PA program	3
PHYS 2070	General Physics I	5
Codo	Title H	
Code Multicultural Stud	Title H lies (3 hours from UToledo core curriculum)	ours
	(0.10010.10110.1010.000.000.1010.1010.1	
Code		ours
Required Major Co		
HHS 1020	Introduction to Health Sciences II C or better	2
11110 0100	L. L. Cor	_
HHS 3100	Introduction to Social Determinants of Health ^C or better	3
HHS 3100 HHS 3600	Foundations of Evidence-Based Practice in Health	3
	Foundations of Evidence-Based Practice in Health Science ^{C or better}	
HHS 3600	Foundations of Evidence-Based Practice in Health Science ^{C or better} Foundations of Healthcare Delivery ^{C or better} Cultural Competence in Health and Human	3
HHS 3600 HHS 4100	Foundations of Evidence-Based Practice in Health Science Corbetter Foundations of Healthcare Delivery Corbetter Cultural Competence in Health and Human Services Professions Corbetter	3
HHS 3600 HHS 4100 COUN 3000	Foundations of Evidence-Based Practice in Health Science Corbetter Foundations of Healthcare Delivery Corbetter Cultural Competence in Health and Human Services Professions Corbetter Human Anatomy And Physiology II Lab Corbetter	3 3
HHS 3600 HHS 4100 COUN 3000 EXSC 2470	Foundations of Evidence-Based Practice in Health Science Corbetter Foundations of Healthcare Delivery Corbetter Cultural Competence in Health and Human Services Professions Corbetter	3 3 1
HHS 3600 HHS 4100 COUN 3000 EXSC 2470 EXSC 2570	Foundations of Evidence-Based Practice in Health Science C or better Foundations of Healthcare Delivery C or better Cultural Competence in Health and Human Services Professions C or better Human Anatomy And Physiology II Lab C or better Human Anatomy and Physiol II C or better Human Pathophysiology For Health Care	3 3 3
HHS 3600 HHS 4100 COUN 3000 EXSC 2470 EXSC 2570 EXSC 2580	Foundations of Evidence-Based Practice in Health Science Corbetter Foundations of Healthcare Delivery Corbetter Cultural Competence in Health and Human Services Professions Corbetter Human Anatomy And Physiology II Lab Corbetter Human Anatomy and Physiol II Corbetter Human Pathophysiology For Health Care Medical Terminology Corbetter	3 3 3 1 3 3
HHS 3600 HHS 4100 COUN 3000 EXSC 2470 EXSC 2570 EXSC 2580 HEAL 1800	Foundations of Evidence-Based Practice in Health Science C or better Foundations of Healthcare Delivery C or better Cultural Competence in Health and Human Services Professions C or better Human Anatomy And Physiology II Lab C or better Human Anatomy and Physiol II C or better Human Pathophysiology For Health Care Medical Terminology C or better Health Care And The Law C or better Medical Ethics C or better	3 3 3 1 3 3
HHS 3600 HHS 4100 COUN 3000 EXSC 2470 EXSC 2570 EXSC 2580 HEAL 1800 LGL 4230	Foundations of Evidence-Based Practice in Health Science Corbetter Foundations of Healthcare Delivery Corbetter Cultural Competence in Health and Human Services Professions Corbetter Human Anatomy And Physiology II Lab Corbetter Human Anatomy and Physiol II Corbetter Human Pathophysiology For Health Care Medical Terminology Corbetter Health Care And The Law Corbetter	3 3 1 3 3 3
HHS 3600 HHS 4100 COUN 3000 EXSC 2470 EXSC 2570 EXSC 2580 HEAL 1800 LGL 4230 PHIL 3370	Foundations of Evidence-Based Practice in Health Science C or better Foundations of Healthcare Delivery C or better Cultural Competence in Health and Human Services Professions C or better Human Anatomy And Physiology II Lab C or better Human Anatomy and Physiol II C or better Human Pathophysiology For Health Care Medical Terminology C or better Health Care And The Law C or better Medical Ethics C or better	3 3 3 3 3 3 3 3 3
HHS 3600 HHS 4100 COUN 3000 EXSC 2470 EXSC 2570 EXSC 2580 HEAL 1800 LGL 4230 PHIL 3370 MATH 2600	Foundations of Evidence-Based Practice in Health Science C or better Foundations of Healthcare Delivery C or better Cultural Competence in Health and Human Services Professions C or better Human Anatomy And Physiology II Lab C or better Human Anatomy and Physiol II C or better Human Pathophysiology For Health Care Medical Terminology C or better Health Care And The Law C or better Medical Ethics C or better Introduction To Statistics C or better	3 3 3 3 3 3 3 3 3
HHS 3600 HHS 4100 COUN 3000 EXSC 2470 EXSC 2570 EXSC 2580 HEAL 1800 LGL 4230 PHIL 3370 MATH 2600 Total Hours Code	Foundations of Evidence-Based Practice in Health Science C or better Foundations of Healthcare Delivery C or better Cultural Competence in Health and Human Services Professions C or better Human Anatomy And Physiology II Lab C or better Human Anatomy and Physiol II C or better Human Pathophysiology For Health Care Medical Terminology C or better Health Care And The Law C or better Medical Ethics C or better Introduction To Statistics C or better	3 3 3 3 3 3 3 3 3 3 3 3

BIOL 2180	Fundamentals of Life Science Laboratory: Biomolecules, Cells, and Inheritance	1
CHEM 1240	General Chemistry II	4
CHEM 1290	General Chemistry Lab II	1
PSY 2510	Lifespan Developmental Psychology	3
BIOL 3010	Molecular Genetics	3
BIOL 3030	Cell Biology	3
BIOL 4030	Microbiology	3
BIOL 4040	Microbiology Laboratory	1
CHEM 2410	Organic Chemistry I	3
CHEM 2460	Organic Chemistry Laboratory I for Non-Majors	-1
Total Hours		27

Code	Title	Hours
Supplemental Ma	jor Course (select one) 3-4 hours	
HEAL 4700	Nutritional Science	3
or EXSC 3520	Applied Exercise Physiology	
& EXSC 3530	and Applied Exercise Physiology Laboratory	
or EXSC 4540	Applied Biomechanics	
& EXSC 4550	and Applied Biomechanics Lab	
or EXSC 4640	Neurological And Pathological Foundations Of	
	Rehabilitation	

Code Title Hours
General Electives to meet 120 credit hours and fulfill upper-level
course requirements

- Health Sciences Human Performance & Fitness Promotion Concentration, BS (p. 1)
- Health Sciences Pre-Athletic Training and Pre-Physical Therapy Concentration, BS (p. 2)
- Health Sciences Pre-Medical Professions Concentration, BS (p. 3)
- Health Sciences Pre-Physician Assistant Concentration, BS (p. 3)

Health Sciences - Human Performance & Fitness Promotion Concentration, BS Plan of Study

First Term		Hours
BIOL 2170	Fundamentals of Life Science: Biomolecules, Cells, and Inheritance	4
BIOL 2180	Fundamentals of Life Science Laboratory: Biomolecules, Cells, and Inheritance	1
ENGL 1110	College Composition I	3
HHS 1010	Introduction to Health Sciences I with Orientation	1
MATH 1340	College Algebra And Trigonometry	5
Elective		3
	Hours	17
Second Term		
EXSC 2560	Anatomy and Physiology I	3
EXSC 2460	Human Anatomy And Physiology I Lab	1



ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
HEAL 1800	Medical Terminology	3
HHS 1020	Introduction to Health Sciences II	2
PSY 1010	Principles Of Psychology	3
1011010	Hours	15
Third Term	110413	10
EXSC 2570	Human Anatomy and Physiol II	3
EXSC 2470	Human Anatomy And Physiology II Lab	1
CHEM 1230	General Chemistry I	4
CHEM 1280	General Chemistry Lab I	1
HHS 3100	Introduction to Social Determinants of	3
	Health	
Diversity of US	OR Non-Diversity of US	3
	Hours	15
Fourth Term		
EXSC 3520	Applied Exercise Physiology	3
EXSC 3530	Applied Exercise Physiology Laboratory	1
COUN 3000	Cultural Competence in Health and Human	3
	Services Professions	
SOC 1010	Introduction To Sociology	3
Arts/Humanitie	es Core	3
Elective		3
	Hours	16
Fifth Term		
EXSC 3830	Principles of Strength Conditioning	3
EXSC 3850	Cardiac Dysrhythmia Interpretation	3
EXSC 3860	Cardiac Dysrhythmia Lab	1
EXSC 4830	Principles of Endurance Conditioning	3
PHYS 2070	General Physics I	5
	Hours	15
Sixth Term		
EXSC 4850	Clinical Exercise Testing	3
EXSC 4860	Clinical Exercise Testing Lab	1
EXSC 3680	Sport and Exercise Pharmacology	3
HHS 4100	Foundations of Healthcare Delivery	3
MATH 2600	Introduction To Statistics	3
Elective		3
	Hours	16
Seventh Term		
EXSC 4140	Fitness Internship I	4
HHS 3600	Foundations of Evidence-Based Practice in Health Science	3
EXSC 2580	Human Pathophysiology For Health Care	3
Supplemental N	Major Course	3-4
	Hours	13-14
Eighth Term		
EXSC 4840	Fitness Internship II	4
US Diversity OF	R Non-US Diversity	3
LGL 4230	Health Care And The Law	3

	Total Hours	120-121
	Hours	13
PHIL 3370	Medical Ethics	3

Health Sciences - Pre-Athletic Training and Pre-Physical Therapy Concentration, BS Plan of Study

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First Term		Hours
BIOL 2170	Fundamentals of Life Science:	4
DIOL 0100	Biomolecules, Cells, and Inheritance	
BIOL 2180	Fundamentals of Life Science Laboratory:	1
HHS 1010	Biomolecules, Cells, and Inheritance Introduction to Health Sciences I with	1
HH2 1010	Orientation	'
ENGL 1110	College Composition I	3
MATH 1340	College Algebra And Trigonometry	5
	Hours	14
Second Term		
BIOL 2150	Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation	4
BIOL 2160	Fundamentals Of Life Science Laboratory: Diversity Of Life, Evolution And Adaptation	1
PSY 1010	Principles Of Psychology	3
HHS 1020	Introduction to Health Sciences II	2
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
Arts/Humanities	Core	3
	Hours	16
Third Term		
CHEM 1230	General Chemistry I	4
CHEM 1280	General Chemistry Lab I	1
SOC 1010	Introduction To Sociology	3
EXSC 2560	Anatomy and Physiology I	3
EXSC 2460	Human Anatomy And Physiology I Lab	1
HHS 3100	Introduction to Social Determinants of	3
	Health	
	Hours	15
Fourth Term		
CHEM 1240	General Chemistry II	4
CHEM 1290	General Chemistry Lab II	1
HEAL 1800	Medical Terminology	3
EXSC 2570	Human Anatomy and Physiol II	3
EXSC 2470	Human Anatomy And Physiology II Lab	1
COUN 3000	Cultural Competence in Health and Human	3
	Services Professions	
	Hours	15
Fifth Term		
EXSC 3520	Applied Exercise Physiology	3
EXSC 3530	Applied Exercise Physiology Laboratory	1
PHYS 2070	General Physics I	5
PSY 2200	Abnormal Psychology (or PSY 2510 or PSY 2700)	3



Elective		3
	Hours	15
Sixth Term		
Arts/Humanitie	es Core	3
PHYS 2080	General Physics II	5
HHS 4100	Foundations of Healthcare Delivery	3
EXSC 2580	Human Pathophysiology For Health Care	3
	Hours	14
Seventh Term		
MATH 2600	Introduction To Statistics	3
HHS 3600	Foundations of Evidence-Based Practice in Health Science	3
PHIL 3370	Medical Ethics	3
EXSC 4540	Applied Biomechanics	3
EXSC 4550	Applied Biomechanics Lab	1
Elective		3
	Hours	16
Eighth Term		
LGL 4230	Health Care And The Law	3
Diversity of US	OR Non-Diversity of US	3
Supplemental Major Course		3
Elective		3
Elective		3
	Hours	15
	Total Hours	120

Health Sciences - Pre-I	Medical Professions
Concentration, BS Plan	of Study

First Term		Hours
BIOL 2170	Fundamentals of Life Science: Biomolecules, Cells, and Inheritance	4
BIOL 2180	Fundamentals of Life Science Laboratory: Biomolecules, Cells, and Inheritance	1
CHEM 1230	General Chemistry I	4
CHEM 1280	General Chemistry Lab I	1
HHS 1010	Introduction to Health Sciences I with Orientation	1
MATH 1340	College Algebra And Trigonometry	5
	Hours	16
Second Term		
BIOL 2150	Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation	4
BIOL 2160	Fundamentals Of Life Science Laboratory: Diversity Of Life, Evolution And Adaptation	1
CHEM 1240	General Chemistry II	4
CHEM 1290	General Chemistry Lab II	1
HHS 1020	Introduction to Health Sciences II	2
ENGL 1110	College Composition I	3
	Hours	15

Third Term		
CHEM 2410	Organic Chemistry I	3
CHEM 2460	Organic Chemistry Laboratory I for Non- Majors	1
EXSC 2560	Anatomy and Physiology I	3
EXSC 2460	Human Anatomy And Physiology I Lab	1
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
HHS 3100	Introduction to Social Determinants of Health	3
	Hours	14
Fourth Term		
CHEM 2420	Organic Chemistry II	3
CHEM 2470	Organic Chemistry Laboratory II for Non- Majors	1
EXSC 2570	Human Anatomy and Physiol II	3
EXSC 2470	Human Anatomy And Physiology II Lab	1
COUN 3000	Cultural Competence in Health and Human Services Professions	3
PSY 1010	Principles Of Psychology	3
	Hours	14
Fifth Term		
CHEM 3510	Biochemistry I	3
PHYS 2070	General Physics I	5
SOC 1010	Introduction To Sociology	3
HEAL 1800	Medical Terminology	3
	Hours	14
Sixth Term		
PHYS 2080	General Physics II	5
HHS 4100	Foundations of Healthcare Delivery	3
-	or US Diversity Elective	3
Elective		3
EXSC 2580	Human Pathophysiology For Health Care	3
	Hours	17
Seventh Term		
MATH 2600	Introduction To Statistics	3
HHS 3600	Foundations of Evidence-Based Practice in Health Science	3
PHIL 3370	Medical Ethics	3
Elective		3
Supplemental Maj		3-4
Findah Tana	Hours	15-16
Eighth Term LGL 4230	Health Care And The Law	0
	Health Care And The Law	3
Arts/Humanities (Sole	3
Elective		3
Elective		3



Non-US Diversi	ty or US Diversity Elective	3
	Hours	15
	Total Hours	120-121
	nces - Pre-Physician Assistant on, BS Plan of Study	
First Term	on, bo Flan of Study	Haura
BIOL 2170	Fundamentals of Life Science:	Hours 4
BIOL 2170	Biomolecules, Cells, and Inheritance	4
BIOL 2180	Fundamentals of Life Science Laboratory:	1
	Biomolecules, Cells, and Inheritance	
CHEM 1230	General Chemistry I	4
CHEM 1280	General Chemistry Lab I	1
HHS 1010	Introduction to Health Sciences I with Orientation	1
MATH 1340	College Algebra And Trigonometry	5
	Hours	16
Second Term		
BIOL 2150	Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation	4
BIOL 2160	Fundamentals Of Life Science Laboratory: Diversity Of Life, Evolution And Adaptation	1
CHEM 1240	General Chemistry II	4
CHEM 1290	General Chemistry Lab II	1
HHS 1020	Introduction to Health Sciences II	2
ENGL 1110	College Composition I	3
	Hours	15
Third Term		
CHEM 2410	Organic Chemistry I	3
CHEM 2460	Organic Chemistry Laboratory I for Non- Majors	1
EXSC 2560	Anatomy and Physiology I	3
EXSC 2460	Human Anatomy And Physiology I Lab	1
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
HHS 3100	Introduction to Social Determinants of Health	3
	Hours	14
Fourth Term		
BIOL 3010	Molecular Genetics	3
EXSC 2570	Human Anatomy and Physiol II	3
EXSC 2470	Human Anatomy And Physiology II Lab	1
HEAL 1800	Medical Terminology	3
COUN 3000	Cultural Competence in Health and Human Services Professions	3
PSY 1010	Principles Of Psychology	3
	Hours	16
Fifth Term		
BIOL 3030	Cell Biology	3
PHYS 2070	General Physics I	5
DO\		_

Lifespan Developmental Psychology

		_
SOC 1010	Introduction To Sociology	3
	Hours	14
Sixth Term		
BIOL 4030	Microbiology	3
BIOL 4040	Microbiology Laboratory	1
HHS 4100	Foundations of Healthcare Delivery	3
EXSC 2580	Human Pathophysiology For Health Care	3
Elective		3
Non-US Diversity	/US Diversity Elective	3
	Hours	16
Seventh Term		
MATH 2600	Introduction To Statistics	3
HHS 3600	Foundations of Evidence-Based Practice in	3
	Health Science	
PHIL 3370	Medical Ethics	3
Elective		3
Supplemental Ma	ajor Course	3-4
	Hours	15-16
Eighth Term		
LGL 4230	Health Care And The Law	3
Arts/Humanities	Core	3
Non-US Diversity /US Diversity Elective		3
Elective		3
Elective		2
	Hours	14
	Total Hours	120-121

- Health Sciences Human Performance & Fitness Promotion Concentration, BS (p. 1)
- Health Sciences Pre-Athletic Training and Pre-Physical Therapy Concentration, BS (p. 2)
- Health Sciences Pre-Medical Professions Concentration, BS (p. 3)
- Health Sciences Pre-Physician Assistant Concentration, BS (p. 3)

Health Sciences - Human Performance & Fitness Promotion Concentration, BS Learning Outcomes

- Identify careers for a health science degree graduate, how to pursue them and how to meet regulatory standards
- Develop foundational healthcare knowledge and concepts for entry into graduate healthcare programs or professional career in healthrelated fields
- Identify the social determinants of health and their impact on health disparities
- Describe cultural responsiveness and humility and their role in delivering patient and client-centered care in an evolving healthcare landscape
- Explain ethical responsibility in healthcare and its role in patient and client-centered care
- Identify health care laws and legal issues, including treatment relationships, medical malpractice, the right to die, reproductive



PSY 2510

- rights, bioethics, health care financing, public health, delivery systems and regulations
- Explain how to locate, appraise and utilize evidence to positively impact health
- Describe healthcare informatics and how it can be used to ensure quality improvement and improve health outcomes
- Describe interprofessional collaborative practice and its role in optimizing patient and client care
- Describe multiple aspects of the social environment and identify how social determinants of health contribute to healthcare disparities
- Develop foundational knowledge and skills to prepare students to work in the human performance and fitness promotion fields

Health Sciences - Pre-Athletic Training and Pre-Physical Therapy Concentration, BS Learning Outcomes

- Identify careers for a health science degree graduate, how to pursue them and how to meet regulatory standards
- Develop foundational healthcare knowledge and concepts for entry into graduate healthcare programs or professional career in healthrelated fields
- Identify the social determinants of health and their impact on health disparities
- Describe cultural responsiveness and humility and their role in delivering patient and client-centered care in an evolving healthcare landscape
- Explain ethical responsibility in healthcare and its role in patient and client-centered care
- Identify health care laws and legal issues, including treatment relationships, medical malpractice, the right to die, reproductive rights, bioethics, health care financing, public health, delivery systems and regulations
- Explain how to locate, appraise and utilize evidence to positively impact health
- Describe healthcare informatics and how it can be used to ensure quality improvement and improve health outcomes
- Describe interprofessional collaborative practice and its role in optimizing patient and client care
- Describe multiple aspects of the social environment and identify how social determinants of health contribute to healthcare disparities
- Develop foundational knowledge for study in the pre-athletic training and pre-physical therapy concentration

Health Sciences - Pre-Medical Professions Concentration, BS Learning Outcomes

- Identify careers for a health science degree graduate, how to pursue them and how to meet regulatory standards
- Develop foundational healthcare knowledge and concepts for entry into graduate healthcare programs or professional career in healthrelated fields
- Identify the social determinants of health and their impact on health disparities

- Describe cultural responsiveness and humility and their role in delivering patient and client-centered care in an evolving healthcare landscape
- Explain ethical responsibility in healthcare and its role in patient and client-centered care
- Identify health care laws and legal issues, including treatment relationships, medical malpractice, the right to die, reproductive rights, bioethics, health care financing, public health, delivery systems and regulations
- Explain how to locate, appraise and utilize evidence to positively impact health
- Describe healthcare informatics and how it can be used to ensure quality improvement and improve health outcomes
- Describe interprofessional collaborative practice and its role in optimizing patient and client care
- Describe multiple aspects of the social environment and identify how social determinants of health contribute to healthcare disparities
- Develop foundational knowledge for study in the pre-medical concentration

Health Sciences - Pre-Physician Assistant Concentration, BS Learning Outcomes

- Identify careers for a health science degree graduate, how to pursue them and how to meet regulatory standards
- Develop foundational healthcare knowledge and concepts for entry into graduate healthcare programs or professional career in healthrelated fields
- Identify the social determinants of health and their impact on health disparities
- Describe cultural responsiveness and humility and their role in delivering patient and client-centered care in an evolving healthcare landscape
- Explain ethical responsibility in healthcare and its role in patient and client-centered care
- Identify health care laws and legal issues, including treatment relationships, medical malpractice, the right to die, reproductive rights, bioethics, health care financing, public health, delivery systems and regulations
- Explain how to locate, appraise and utilize evidence to positively impact health
- Describe healthcare informatics and how it can be used to ensure quality improvement and improve health outcomes
- Describe interprofessional collaborative practice and its role in optimizing patient and client care
- Describe multiple aspects of the social environment and identify how social determinants of health contribute to healthcare disparities
- Develop foundational knowledge for study in pre-physician assistant concentration.

