

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 (p. 3)

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

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

or MATH 132: College Algebra and Trigonometry & MATH 133

HHS 1010	Introduction to Health Sciences I with Orientation	
Code	Title	Hours
Social Sciences (6 hours) (satisfies social sciences core curriculum requirement)		
SOC 1010	Introduction To Sociology	6
PSY 1010	Principles Of Psychology	

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 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
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

Code	Title	Hours
Multicultural Studies (3 hours from UToledo core curriculum)		
		3

Code	Title	Hours
Required Major 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}	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	Hours
Human Performance Fitness Promotion (29 hours) Concentration		
EXSC 3520	Applied Exercise Physiology ^{C or better}	3

EXSC 3530	Applied Exercise Physiology Laboratory ^{C or better}	1
EXSC 3680	Sport and Exercise Pharmacology ^{C or better}	3
EXSC 3830	Principles of Strength Conditioning ^{C or better}	3
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	Hours
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Supplemental Major Course select one (3-4 hours)

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

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

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

Code	Title	Hours
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Skills Area (12-13 hours)

ENGL 1110	College Composition I	3
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
MATH 1340	College Algebra And Trigonometry	5
or MATH 1320 & MATH 1330	College Algebra and Trigonometry	
HHS 1010	Introduction to Health Sciences I with Orientation	1

Code	Title	Hours
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Social Sciences (6 hours) (satisfies social sciences core curriculum requirement)

SOC 1010	Introduction To Sociology	3
PSY 1010	Principles Of Psychology	3

Code	Title	Hours
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Humanities/Fine Arts (6 hours from UToledo Core Curriculum)

Code	Title	Hours
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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: 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 ^{C or better}	1
EXSC 2560	Anatomy and Physiology I ^{C or better}	3
PHYS 2070	General Physics I	5

Code	Title	Hours
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Multicultural Studies (3 hours from UToledo core curriculum)

Code	Title	Hours
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Required Major 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}	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
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Pre-Athletic and Pre-Physical Therapy (26 hours) Concentration

BIOL 2170	Fundamentals of Life Science: Biomolecules, Cells, and Inheritance	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 the following:		3
PSY 2200	Abnormal Psychology	
PSY 2510	Lifespan Developmental Psychology	
PSY 2700	Social Psychology	

General Electives		12
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Total Hours 38

Code	Title	Hours
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Supplemental Major Course (select one) 3 hours

HEAL 4700	Nutritional Science	3
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or EXSC 4640	Neurological And Pathological Foundations Of Rehabilitation	
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Code	Title	Hours
General Electives to meet 120 credit hours and fulfill upper-level course requirements		

Health Sciences - Pre-Medical Professions 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	College Algebra And Trigonometry	5
or MATH 1320 & MATH 1330	College Algebra and Trigonometry	
HHS 1010	Introduction to Health Sciences I with Orientation	1

Code	Title	Hours
Social Sciences (6 hours) (satisfies social sciences core curriculum requirement)		

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: 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	1
EXSC 2560	Anatomy and Physiology I	3
PHYS 2070	General Physics I	5

Code	Title	Hours
Multicultural Studies (3 hours from UToledo core curriculum)		

Code	Title	Hours
Required Major Courses (33 hours)		

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}	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	Hours
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Pre-Medical (26 hours) Concentration

BIOL 2170	Fundamentals of Life Science: Biomolecules, Cells, and Inheritance	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
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Supplemental Major Course (select one) 3-4 hours

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
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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	3
MATH 1340	College Algebra And Trigonometry	5

or MATH 1320 & MATH 1330	College Algebra and Trigonometry	
HHS 1010	Introduction to Health Sciences I with Orientation	1

Code	Title	Hours
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Social Sciences (6 hours) (satisfies social sciences core curriculum requirement)

SOC 1010	Introduction To Sociology	3
PSY 1010	Principles Of Psychology	3

Code	Title	Hours
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Humanities/Fine Arts (6 hours from UToledo Core Curriculum)

Code	Title	Hours
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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: 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

Code	Title	Hours
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Multicultural Studies (3 hours from UToledo core curriculum)

Code	Title	Hours
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Required Major Courses (33 hours)

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}	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
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Code	Title	Hours
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Pre-Physician Assistant (27 hours) Concentration

BIOL 2170	Fundamentals of Life Science: Biomolecules, Cells, and Inheritance	4
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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
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Supplemental Major Course (select one) 3-4 hours

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
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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
Hours		15

Third Term

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 Health	3
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 Services Professions	3
SOC 1010	Introduction To Sociology	3
Arts/Humanities 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 Major Course		3-4
Hours		13-14

Eighth Term

EXSC 4840	Fitness Internship II	4
US Diversity OR Non-US Diversity		3
LGL 4230	Health Care And The Law	3

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

Health Sciences - Pre-Athletic Training and Pre-Physical Therapy 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
HHS 1010	Introduction to Health Sciences I with Orientation	1
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 Health	3
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 Services Professions	3
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/Humanities Core		
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		
Supplemental Major Course		
Elective		3
Elective		3
Hours		15
Total Hours		120

Health Sciences - Pre-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
Non-US Diversity or US Diversity Elective		
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 Major Course		
Hours		15-16

Eighth Term		
LGL 4230	Health Care And The Law	3
Arts/Humanities Core		
Elective		3
Elective		3

Non-US Diversity or US Diversity Elective	3
Hours	15
Total Hours	120-121

Health Sciences - Pre-Physician Assistant 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		Hours
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		Hours
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		Hours
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		Hours
BIOL 3030	Cell Biology	3
PHYS 2070	General Physics I	5
PSY 2510	Lifespan Developmental Psychology	3

SOC 1010	Introduction To Sociology	3
Hours		14

Sixth Term		Hours
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		Hours
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 Major Course		3-4
Hours		15-16

Eighth Term		Hours
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 health-related 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 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 health-related 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 health-related 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 health-related 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.