










PRE-MED, EMPHASIS (BIOMECHANICS)

The Pre-Med area of emphasis is designed for students wishing to apply for professional physical therapy programs. Adding this area of emphasis may require students to take beyond 15 hours per semester or to take summer classes in order to complete their degree program in four years.

Course Requirements

 - General Education Course


 - Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Code	Title	Credit Hours
CHM 211 	Principles of Chemistry I ¹	3
CHM 212 	Principles Chemistry II	3
CHM 217 	Principles of Chem Lab I	2
CHM 218 	Principles of Chem Lab II	2
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
CHM 365	Introductory Biochemistry	3
BSC 120 	Principles of Biology I	3
BSC 120L 	Principles of Biology I Lab	1
BSC 121 	Principles of Biology II	3
BSC 121L 	Prin of Biology II Lab	1
PSY 311	Child Development	3
PSY 312	Adult Development	3
Total Credit Hours		36





¹ CHM 111 may be required based on pre-requisites or placement exam.


Semester Plan

 - General Education Course







 - Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

First Year

First Semester		Credit Hours
HS 200 	Comp Medical Terminology (CT)	3
FYS 100	First Yr Sem Critical Thinking	3
ENG 101 	Beginning Composition	3
MTH 130 	College Algebra	5
or MTH 127 	or College Algebra-Expanded	
UNI 100	Freshman First Class	1

PSY 201 	Introductory Psychology (CT)	3
Credit Hours		18







Second Semester

BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
HS 265 	Fund Video Analysis Mvmt (CT)	3
ENG 201 	Advanced Composition	3
PSY 201 	Introductory Psychology (CT)	3
MTH 122 	Plane Trigonometry	3
PSY 311	Child Development	3
CHM 211 	Principles of Chemistry I	5
& CHM 217 	and Principles of Chem Lab I ¹	

Credit Hours **24**



Second Year

First Semester

BSC 228 	Human Physiology	3
BSC 228L 	Human Physiology Lab	1
CHM 212 	Principles Chemistry II	5
& CHM 218 	and Principles of Chem Lab II ¹	
HS 365	Functional Kinesiology	3
HS 365L	Functional Kinesiology Lab	1
PHY 201 	College Physics I	4
& PHY 202 	and General Physics I Laboratory	

Credit Hours **17**



Second Semester

HS 215	Intro to Athletic Training	3
HS 222	Hlth Prov First Aid/CPR/AED	3
ESS 345	Exercise Physiology	3
PHY 203 	College Physics II	4
& PHY 204 	and General Physics 2 Laboratory	
CMM Elective		3
Core II Social Science		3

Credit Hours **19**



Third Year


First Semester

HS 465	Biomechanical Analy of Mvmt	3
HS 369	Motor Learning	3
ESS 442	Princ of Strength & Cond	3
ESS 443	Prin of Strength Cond Lab	1
Humanities Elective		3
BSC 120 	Principles of Biology I	4
& BSC 120L 	and Principles of Biology I Lab	
CHM 355	Organic Chemistry I ¹	3

Credit Hours **20**

Second Semester

HS 435	Biomech Instrument Mat Lab	3
HS 464	Pathomechanics	3
HS 478	Research Practicum Biomechanic	3
BSC 121 	Principles of Biology II	4
& BSC 121L 	and Prin of Biology II Lab	
CHM 356	Organic Chemistry II	3

CHM 361	Intro Organic Chm Lab	3
Credit Hours		19
Fourth Year		
First Semester		
HS 475	Trends in Biomechanics	3
HS 410	Organ Admin in Kines	3
HS 405	Sport Psychology	3
DTS 210	Nutrition	3
Core II Fine Arts		3
Credit Hours		15
Second Semester		
HS 495	Trends in Biomechanics II	3
ESS 220	Fitness and Wellness	3
PSY 223 	Elem Behavioral Stat	3
CHM 365	Introductory Biochemistry	3
PSY 311	Child Development	3
Credit Hours		15
Total Credit Hours		147

¹ May be taken in Summer.