Course of Study for Biomechanics

PRE-MEDICAL SCHOOL

YEAR ONE			
Fall Semester	Hours	Spring Semester Ho	lours
MTH 132 Precalculus with Science Applications	5	HS 221 Personal Health I	3
ENG 101 English Composition (COMP-CORE II)	3	PSY 201 General Psychology (SOCIAL-CORE II & CT)	3
HS 200 Medical Terminology for the AT (CORE I - CT)	3	FirstYear Seminar (Core I)	3
BSC 227 Human Anatomy	4	ENG 102 English Composition II (COMP-CORE II)	3
		BSC 228 Human Physiology (NAT SCI- Core II)	4
Total	15	Total 1	16

Summer

	Hours
BSC 120 Principals of Biology (Med – pre-req)	4
BSC 121 Principals of Biology (Med – pre-req)	4

YEAR TWO

Hours	Spring Semester	Hours
3	PHY 203 General Physics II	3
1	PHY 204 General Physics II Lab	1
3	SFT 235 Intro to Safety (CT)	3
3	HS 215 Intro to Athletic Training	3
3	Eng. Literature (HUN-(Core II)	3
3		
16	Total	13
	3 1 3 3 3 3	3 PHY 203 General Physics II 1 PHY 204 General Physics II Lab 3 SFT 235 Intro to Safety (CT) 3 HS 215 Intro to Athletic Training 3 Eng. Literature (HUN-(Core II) 3

Summer

	Hours
CHM 211 Chemistry I (Med – pre-req)	3
CHM 212 Chemistry I lab (Med – pre-req)	2
CHM 212 Chemistry II (Med – pre-req)	3
CHM 212 Chemistry II lab (Med – pre-req)	2

YEAR THREE

TEAN TIME				
Fall Semester	Hours	Spring Semester	Hours	
HS 465 Biomechanical Analysis of Movement	3	HS 464 Pathomechanics	3	
ESS 375 Fitness Assessment	3	HS 435 Biomech Instrument MATLAB	3	
HS 478 Research Practicum	3	SFT 373 Principles in Ergonomics and Human Factors	3	
STA 225 Statistics (MATH- Core II)	3	SFT 373 L Principles in Ergonomics Lab	1	
SS 401 Ethics	3	ESS 220 Fitness Wellness	3	
Total	15	Total	13	

Summer	
	Hours
HS 369 Motor Learning	3
CHM 355 Organic Chemistry I (Med – pre-req)	3
CHM 356 Organic Chemistry II (Med – pre-req)	3
CHM 361 Intro Organic Chemistry lab (Med – pre-req)	3

YEAR THREE - SUMMER I

ESS 369 Motor Learning (online)	3		

YEAR FOUR

Fall Semester	Hours	Spring Semester	Hours	
Fall Semester HS 475 Trends in Biomechanical Analysis (capstone)	3	HS 495 Trend in Biomechanical Analysis 2	3	
(capstone)		(capstone)		
ESS 442 Strength and Conditioning	3	ESS 410 Administration and Organization	3	
ESS 443 Principles of Strength and	1	PSY 312 Adult Development	3	
Conditioning Lab				
ESS 401 Ethics in Sport	3	HS 222 First Aid	3	
DTS 210 Nutrition	3	Elective	3	
ESS 443 Principles of Strength and Conditioning Lab ESS 401 Ethics in Sport DTS 210 Nutrition COMM (CORE II)	3			
Total	16	Total	15	