

Course of Study for Biomechanics

YEAR ONE			
Fall Semester	Hours	Spring Semester	Hours
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	First-Year 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	16
Summer (Optional)			
		Hours	
BSC 120 Principals of Biology		4	
BSC 121 Principals of Biology		4	
YEAR TWO			
Fall Semester	Hours	Spring Semester	Hours
PHY 201 General Physics I	3	PHY 203 General Physics II	3
PHY 202 General Physics I Lab	1	PHY 204 General Physics II Lab	1
Fine Art elective (FINE ART – CORE II)	3	SFT 235 Intro to Safety (CT)	3
ESS 345 Physiology of Exercise	3	HS 215 Intro to Athletic Training	3
HS 365 Functional Biomechanics	3	Eng. Literature (HUN-(Core II)	3
PSY 311 Child Development	3		
Total	16	Total	13
Summer (Optional)			
		Hours	
CHM 211 Chemistry I		3	
CHM 212 Chemistry I lab		2	
CHM 212 Chemistry II		3	
CHM 212 Chemistry II lab		2	
YEAR THREE			
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		Total	
15		13	
Summer			
		Hours	
HS 369 Motor Learning		3	
YEAR THREE – SUMMER I			
ESS 369 Motor Learning (online)	3		
YEAR FOUR			
Fall Semester	Hours	Spring Semester	Hours
HS 475 Trends in Biomechanical Analysis (capstone)	3	HS 495 Trend in Biomechanical Analysis 2 (capstone)	3
ESS 442 Strength and Conditioning	3	ESS 410 Administration and Organization	3
ESS 443 Principles of Strength and Conditioning Lab	1	PSY 312 Adult Development	3
ESS 401 Ethics in Sport	3	HS 222 First Aid	3
DTS 210 Nutrition	3	Elective	3
COMM (CORE II)	3		
Total		Total	
16		15	
TOTAL HOURS—122			

Notes: _____
