BIOMECHANICS, BACHELOR OF SCIENCE

Biomechanics, Bachelor of Science Requirements

Code	Title	Credits
GENERAL EDUCAT	TION REQUIREMENTS - 46 Hours	
Required		

	Minimum of "C-"required		
	Fundamental Acade	emic Skills	15
	ENGL 1150	ENGLISH COMPOSITION I	
	ENGL 1160	ENGLISH COMPOSITION II	
Writing in the Discipline Course			
	CMST 1110	PUBLIC SPEAKING FUNDS	
	or CMST 2120	ARGUMENTATION AND DEBATE	
	MATH 1120	INTRODUCTION TO MATHEMATICAL	
		AND COMPUTATIONAL THINKING	
	or MATH 1100	DATA LITERACY AND VISUALIZATION	
	or MATH 1130	QUANTITATIVE LITERACY	
	or MATH 1140	QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS	
	or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	
	or STAT 1100	DATA LITERACY AND VISUALIZATION	
	or STAT 1530	ELEMENTARY STATISTICS	

Distribution Requirements

Natural Science - From two disciplines and at least one lab - 7 hrs

Social Science - From two disciplines - 9 hrs

Humanities and Fine Arts - From two disciplines - 9 hrs

Global Diversity - 3 hrs

MAJOR REQUIREMENTS - 98-99 Hours

**Course will satisfy UNO's General Education requirement

US Diversity - 3 hrs

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All of the following		86-87
BIOL 1450	BIOLOGY I (** ^)	
BIOL 1750	BIOLOGY II (^)	
BMCH 2400	HUMAN PHYSIOLOGY & ANATOMY I (**)	
BMCH 2500	HUMAN PHYSIOLOGY AND ANATOMY II (^)	
CHEM 1180	GENERAL CHEMISTRY I (** ^)	
CHEM 1184	GENERAL CHEMISTRY I LABORATORY (** ^)	
CHEM 1190	GENERAL CHEMISTRY II (^)	
CHEM 1194	GENERAL CHEMISTRY II LABORATORY (^)	
PHYS 2110	GENERAL PHYSICS I - CALCULUS LEVEL (** ^)	
PHYS 1154	GENERAL PHYSICS LABORATORY I (** ^)	
PHYS 2120	GENERAL PHYSICS-CALCULUS LEVEL (^)	
PHYS 1164	GENERAL PHYSICS LABORATORY II (^)	
MATH 1300	COLLEGE ALGEBRA WITH SUPPORT (**)	
or MATH 1220	COLLEGE ALGEBRA	
MATH 1330	TRIGONOMETRY (^)	
MATH 1950	CALCULUS I (^)	
MATH 1960	CALCULUS II (^)	

	PSYC 1010	INTRODUCTION TO PSYCHOLOGY I (**)	
	PSYC 4440	ABNORMAL PSYCHOLOGY (^)	
	BMCH 1000	INTRODUCTION TO BIOMECHANICS (**)	
	BMCH 1100	ETHICS OF SCIENTIFIC RESEARCH (**)	
	BMCH 2200	ANALYTICAL METHODS IN BIOMECHANICS	
	BMCH 3000	BIOMECHANICAL STATICS & DYNAMICS (^)	
	BMCH 4630	BIOMECHANICS (^)	
	BMCH 4200	METHODS IN BIOMECHANICS I (^)	
	BMCH 4210	METHODS IN BIOMECHANICS II (^)	
	BMCH 4980	CAPSTONE DESIGN IN BIOMECHANICS I (^)	
	BMCH 4990	CAPSTONE DESIGN IN BIOMECHANICS II (^)	
•	Select 1 of the follo	wing	3
	PSYC 3130	STATISTICS FOR THE BEHAVIORAL SCIENCES (^)	
	STAT 1530	ELEMENTARY STATISTICS (** ^)	
	STAT 3800	APPLIED ENGINEERING PROBABILITY AND STATISTICS (^)	
	HEKI 2100	STATISTICS IN HEALTH AND KINESIOLOGY (^)	
	Choose 3 of the foll	owing	9
	BMCH 4000	BIOMATERIALS	
	BMCH 4100	BIOINSPIRED ROBOTICS	
	BMCH 4640	ORTHOPEDIC BIOMECHANICS (^)	
	BMCH 4650	NEUROMECHANICS OF HUMAN MOVEMENT (^)	
	BMCH 4660	CLINICAL IMMERSION FOR RESEARCH AND DESIGN (^)	
	BMCH 4670	INTRODUCTION TO MECHANICS OF BIOMATERIALS (^)	
	BMCH 4680	SPORTS BIOMECHANICS (^)	
	BMCH 4690	CARDIOVASCULAR BIOMECHANICS (^)	
I	ELECTIVES		

Elective hours as required to reach a total of 120 hours

Biomechanics, Bachelor of Science Four Year Plan

Freshman

Fall		Credits
BIOL 1450	BIOLOGY I	5
BMCH 1000	INTRODUCTION TO BIOMECHANICS	3
MATH 1220	COLLEGE ALGEBRA 1	3
Attend Durango	Days; other campus events	
Advising appoint	ment for spring: Sept Oct.	
BMCH 2400	HUMAN PHYSIOLOGY & ANATOMY I	4
	Credits	15
Spring		
BMCH 2500	HUMAN PHYSIOLOGY AND ANATOMY II	4
PSYC 1010	INTRODUCTION TO PSYCHOLOGY I	3
MATH 1330	TRIGONOMETRY	3
BIOL 1750	BIOLOGY II	5
Advising appointment for fall: February - March		
Join a student organization		
	Cradita	15

Credits 15

[^]Course requires pre-requisite(s)

Sophomore Fall		
BMCH 2200	ANALYTICAL METHODS IN	3
NAATU 4050	BIOMECHANICS	-
MATH 1950	CALCULUS I GENERAL CHEMISTRY I	5
CHEM 1180		3
CHEM 1184	GENERAL CHEMISTRY I LABORATORY	1
ENGL 1150 ENGLISH COMPOSITION I		3
Advising appointm	nent for spring: Sept Oct.	45
Carada a	Credits	15
Spring	ETHICS OF SCIENTIFIC DESCARCH	2
BMCH 1100	ETHICS OF SCIENTIFIC RESEARCH	3
PHYS 2110	GENERAL PHYSICS I - CALCULUS LEVEL	4
PHYS 1154	GENERAL PHYSICS LABORATORY I	1
CHEM 1190	GENERAL CHEMISTRY II	3
CHEM 1194	GENERAL CHEMISTRY II LABORATORY	1
ENGL 1160	ENGLISH COMPOSITION II	3
Advising appointm	ent for fall: February - March	
	Credits	15
Junior		
Fall		
BMCH 3000	BIOMECHANICAL STATICS & DYNAMICS	3
BMCH 4200	METHODS IN BIOMECHANICS I	3
CMST 1110	PUBLIC SPEAKING FUNDS	3
PSYC 3130	STATISTICS FOR THE BEHAVIORAL SCIENCES	3
MATH 1960	CALCULUS II	4
Advising appointmen	t for spring: Sept Oct.	
CL L · /V.L ·		
Shadowing/Volunt	eer experiences	
Snadowing/ volunt	Credits	16
Spring Spring		16
3,		16
Spring	Credits	
Spring BMCH 4210	Credits METHODS IN BIOMECHANICS II	3
Spring BMCH 4210 BMCH 4630	Credits METHODS IN BIOMECHANICS II BIOMECHANICS	3
Spring BMCH 4210 BMCH 4630 PHYS 2120	Credits METHODS IN BIOMECHANICS II BIOMECHANICS GENERAL PHYSICS-CALCULUS LEVEL	3 3 4
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Social Science with Diveristy

Elective	2
Apply for graduation	
Career searching	
Credits	15
Total Credits	120

 $^{^{\}rm 1}\,$ BIOL2740 and BIOL2840 can be taken in place of BMCH 2400 and 2500

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

Additional Information About this Plan:

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University Degree Requirements: The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

Placement Exams: For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php

^{**}Transfer credit or placement exam scores may change suggested plan of study