

# Minor in Biomechanical Engineering

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## Biomechanical Engineering Minor

### General Requirements

To obtain a Biomechanical Engineering Minor, students must take at least 11.0 credits from the courses listed below. Fundamentals of Biology I (CBEN110) and Introduction to Biomechanical Engineering (MEGN330) are required (7.0 credits). Three more courses may be chosen from the proposed list of electives. The list of electives will be modified as new related courses become available.

### Required Courses (7.0 credits)

CBEN110	FUNDAMENTALS OF BIOLOGY I	4.0
MEGN330	INTRODUCTION TO BIOMECHANICAL ENGINEERING	3.0

### Biomechanical Engineering Elective Courses

MEGN430	MUSCULOSKELETAL BIOMECHANICS	3.0
MEGN435	MODELING AND SIMULATION OF HUMAN MOVEMENT	3.0
or MEGN535	MODELING AND SIMULATION OF HUMAN MOVEMENT	
MEGN532	EXPERIMENTAL METHODS IN BIOMECHANICS	3.0
MEGN536	COMPUTATIONAL BIOMECHANICS	3.0
MEGN553	COMPUTATIONAL FLUID DYNAMICS	3.0
MEGNX98/X99	SPECIAL TOPICS *	3.0
MTGN472	BIOMATERIALS I	3.0
or MTGN572	BIOMATERIALS	
MTGN570	BIOCOMPATIBILITY OF MATERIALS	3.0
CBEN311	NEUROSCIENCE	3.0
CBEN304	ANATOMY AND PHYSIOLOGY	3.0
CBEN305	ANATOMY AND PHYSIOLOGY LAB	1.0
CBEN320	CELL BIOLOGY AND PHYSIOLOGY	3.0
CBEN454	APPLIED BIOINFORMATICS	3.0
or CBEN554	APPLIED BIOINFORMATICS	
MATH431	MATHEMATICAL BIOLOGY	
PHGN433	BIOPHYSICS	3.0
CBEN120	FUNDAMENTALS OF BIOLOGY II	4.0

\* As the content of these courses varies, the course must be noted as relevant to the biomechanical engineering minor.