

Faculty of Kinesiology

BSc Biomechanics Major

UCID #:

This is a guide to help you navigate your program but does not supersede the Academic Calendar. It is the responsibility of the student to ensure graduation requirements are met per the [Academic Calendar](#)

UNITS CORE REQUIREMENTS (54 UNITS)

3 _____	KNES 201	Activity: Essence and Experience
3 _____	KNES 203	Activity: Health, Fitness, and Performance
3 _____	KNES 213	Introduction to Research in Kinesiology
3 _____	KNES 244	Sociology of Movement Cultures
3 _____	KNES 251	Introduction to Motor Control and Learning
3 _____	KNES 253	Introduction to Exercise and Sport Psychology
3 _____	KNES 259	Human Anatomy and Physiology I
3 _____	KNES 260	Human Anatomy and Physiology II
3 _____	KNES 263	Quantitative Biomechanics
3 _____	KNES 323	Integrative Human Physiology
3 _____	KNES 337	Introduction to Nutrition (formerly 237)
3 _____	KNES 344	Gender, Sexuality, and Sport

3 _____ **One of:** _____ KNES 351 Foundations of Neural Control of Movement or
 _____ KNES 397 Health and Exercise Psychology, or _____ KNES 399 Psychology of Sport

3 _____	KNES 355	Human Growth and Development
3 _____	KNES 363	Biomechanics of Biological Materials
3 _____	KNES 372	Foundations of Sport Medicine
3 _____	KNES 373	Exercise Physiology

3 _____ **One of:** _____ STAT 205 Intro to Statistical Inquiry or _____ STAT 213 Intro to Statistics I

BIOMECHANICS MAJOR REQUIREMENTS (36 UNITS)

3 _____	MATH 211	Linear Methods I
3 _____	MATH 275	Calculus for Engineers and Scientists
3 _____	MATH 277	Multivariable Calculus for Engineers and Scientists
3 _____	ENGG 212	Fundamentals of Fluid Behaviour (previously ENGG 201)
3 _____	ENGG 202	Engineering Statics
3 _____	ENGG 311	Engineering Thermodynamics
3 _____	ENME 317	Mechanics of Deformable Solids I
3 _____	ENGG 349	Dynamics
3 _____	KNES 396	Research Seminar (previously KNES 393 + 395)
3 _____	KNES 463	Advanced Techniques in Biomechanics

6 _____ **One of:** _____ KNES 566A&B Biomechanics Research Project or _____ KNES 590A&B Honours Project
 (Students must be admitted to the [Honours program](#) to enroll in KNES 590).

SENIOR KINESIOLOGY OPTIONS (12 UNITS)

3 _____ 3 _____ 3 _____ 3 _____

OPEN OPTIONS – Kinesiology or non-Kinesiology, Junior or Senior (18 UNITS)

3 _____ 3 _____ 3 _____ 3 _____ 3 _____ 3 _____

IMPORTANT DEGREE CHECKS

- ☐ A minimum of 60 units (20 courses) at the senior level are required; this means a max of 60 units (20 courses) at the 200 level are permitted.
- ☐ A maximum of 60 transfer units may be applied to the degree; of those, a max of 27 units may be core courses.
- ☐ A total of 120 units are required to complete the Kinesiology degree.