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COURSE LEVEL Undergraduate

YEAR 2021

COURSE INFORMATION



AREA/CATALOGUE

HLTH 2025



COURSE LEVEL

Undergraduate



OFFERED EXTERNALLY

No



COURSE ID

154200



UNIT VALUE

4.5



UNIVERSITY-WIDE ELECTIVE

COURSE

No



TIMETABLE/S

Second Semester (Study Period 5)



COURSE OWNER

UniSA Allied Health & Human Performance

Course aim

Apply mechanical principles to the analysis of human movement.

Course content

Linear and angular kinematics: reference planes and axis of rotation; linear, rectilinear and curvilinear motion; angular motion; basic techniques for kinematic analysis; equations of constant acceleration and projectile motion; interpretation of kinematic data. Linear and angular kinetics: Newton's laws of motion and gravitation; centre of mass of a body; free-body diagrams; moment arms and levers; momentum and impulse; work, energy and power, stability and balance; interpretation of kinetic data. Human movement in a fluid medium: buoyancy, ag, lift and propulsion. Upper and lower body musculoskeletal tissue mechanics: stress, strain, modulus and

viscoelasticity; response of tissues to mechanical overload in injury and conditioning; degradation of tissue mechanics.

Textbook(s)

Nil

Prerequisite(s)

Nil

Corequisite(s)

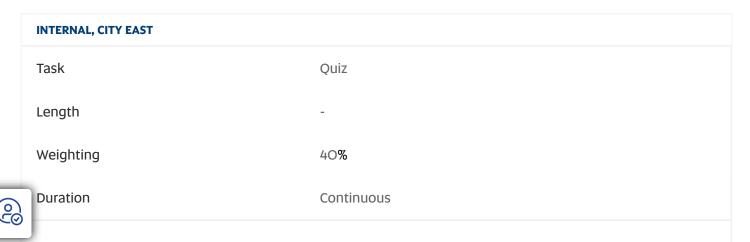
Nil

Teaching method

INTERNAL, CITY EAST	
Component	Lecture
Duration	2 x 1 hour x 13 weeks
Component	Workshop
Duration	2 hours x 12 weeks

Note: These components may or may not be scheduled in every study period. Please refer to the timetable for further details.

Assessment



Task	Report
Length	2000 words
Weighting	40%
Duration	-
Task	Practical Assessment
Length	-
Weighting	20%
Duration	10 minutes

Fees

EFTSL*: 0.125

Commonwealth Supported program (Band 4A)

To determine the fee for this course as part of a Commonwealth Supported program, go to:

How to determine your Commonwealth Supported course fee. (Opens new window)

Fee-paying program for domestic and international students

International students and students undertaking this course as part of a postgraduate fee paying program must refer to the relevant program home page to determine the cost for undertaking this course.

Non-award enrolment

Non-award tuition fees are set by the university. To determine the cost of this course, go to:

How to determine the relevant non award tuition fee. (Opens new window)

Not all courses are available on all of the above bases, and students must check to ensure that they are permitted to enrol in a particular course.

* Equivalent Full Time Study Load. Please note: all EFTSL values are published and calculated at ten decimal places. Values are displayed to three decimal places for ease of interpretation.

Course Coordinators





Dr Robert Crowther >UniSA Allied Health & Human
Performance



Contact us

Australian students

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International students

Phone: +61 8 9627 4854

Enquiry: unisa.edu.au/international/enquiry

For further information please visit unisa.edu.au/study

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