



The University of Southern Queensland

Course specification

The current and official versions of the course specifications are available on the web at <http://www.usq.edu.au/coursespecification/current>.
Please consult the web for updates that may occur during the year.

Description: Bio-Physical Foundations of Physical Activity 1

Subject	Cat-nbr	Class	Term	Mode	Units	Campus
EDU	2462	79050	2, 2008	ONC	1.00	Springfield

Academic group:	FOEDU
Academic org:	FOE002
Student contribution band:	National Priority Teaching
ASCED code:	070100

STAFFING

Examiner: Helmut Geiblinger

OTHER REQUISITES

State law in Queensland (Australia) requires that all adults working/undertaking professional experience/researching with children under the age of 18, in the state of Queensland are required to possess a current suitability card (Blue Card). (See "Other Requirements" for further information.) Also see: <http://www.childcomm.qld.gov.au/employment/bluecard/informationSheets.html>.

RATIONALE

The study of physical activity from a bio-physical perspective is founded upon an interdisciplinary framework. This requires a grasp of how sub-disciplines contribute to our understanding of the production of movement, its control and the energy systems which fuel physical activity. Teachers, coaches and therapists within the broad field of human movement need to understand how this framework can affect performance and learning in motor skills. Knowledge of the relationship between body systems provides a sound basis for the evaluation of human physical performance as well as a theoretical background for teaching, coaching and rehabilitation.

SYNOPSIS

This course provides the student with an understanding of the relationship between functional anatomy, mechanics of movement, movement control and metabolic responses to various levels of activity and exercise. The key elements within these sub-disciplines are explored to provide grounding in the principles on which movement is based.

OBJECTIVES

The course objectives define the student learning outcomes for a course. The assessment item(s) that may be used to assess student achievement of an objective are shown in parenthesis. On completion of this course students will be able to:

1. describe the general contribution of skeletal structure to locomotion (examination)
2. describe the general structure and function of skeletal muscle (examination)

3. understand human locomotion in mechanical terms (examination)
4. understand the general principles of metabolic responses to exercise (examination)
5. understand the principle of overload as a physical training strategy (examination)
6. analyse these principles in relation to paediatric physical activity and growth patterns (examination)
7. be able to analyse these principles in relation to paediatric physical activity and growth patterns (examination)
8. demonstrate competence in and appropriate use of language and literacy, including spelling, grammar, punctuation and bibliographic referencing. (assignment)

TOPICS

Description	Weighting (%)
1. Functional anatomy and the mechanics of human movement	30.00
1.1. musculo-skeletal system	
1.2. anthropometry and somatotyping	
1.3. paediatric function and changes through growth	
2. Physiological bases of human movement	30.00
2.1. kinetics and kinematics	
2.2. mechanical analysis	
2.3. differences in children and changes over time	
3. Physiological parameters of performance	40.00
3.1. exercise metabolism and systems	
3.2. training and human adaptation	
3.3. children and exercise	
3.4. changes through growth	

TEXT and MATERIALS required to be PURCHASED or ACCESSED

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at <http://bookshop.usq.edu.au> click 'Semester', then enter your 'Course Code' (no spaces).

Behnke, Robert S 2006, *Kinetic anatomy*, 2nd edn, Human Kinetics, Champaign,IL.

REFERENCE MATERIALS

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.

Whether you are on, or off campus, the USQ Library is an excellent source of information <http://www.usq.edu.au/library/> . The gateway to education resources is here...

<http://www.usq.edu.au/library/faculties/education/default.htm>

Housh, T & Housh, D 2003, *Introduction to exercise science*, 2nd edn, Allyn & Bacon, Boston, MA.

STUDENT WORKLOAD REQUIREMENTS

ACTIVITY	HOURS
Assessments	40.00
Directed Study	40.00
Lectures	26.00
Private Study	33.00
Tutorials	26.00

ASSESSMENT DETAILS

Description	Marks out of	Wtg (%)	Due date
ASSIGNMENT	40.00	40.00	24 Oct 2008 (see note 1)
2 HOUR EXAMINATION	60.00	60.00	END S2 (see note 2)

NOTES

1. The examiner will advise the due date for this assessment item.
2. Students will be advised of the examination date for this course when the official timetable for semester 2 2008 has been finalised.

IMPORTANT ASSESSMENT INFORMATION

- 1 Attendance requirements:
It is the students' responsibility to attend and participate appropriately in all activities (such as lectures, tutorials, laboratories and practical work) scheduled for them, and to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration.
- 2 Requirements for students to complete each assessment item satisfactorily:
To satisfactorily complete an individual assessment item a student must achieve at least 50% of the marks.
- 3 Penalties for late submission of required work:
If students submit assignments after the due date without (prior) approval of the examiner then a penalty of 5% of the total marks gained by the student for the assignment may apply

- for each working day late up to ten working days at which time a mark of zero may be recorded. No assignments will be accepted after model answers have been posted.
- 4 Requirements for student to be awarded a passing grade in the course:
To be assured of receiving a passing grade a student must achieve at least 50% of the total weighted marks available for the course.
 - 5 Method used to combine assessment results to attain final grade:
The final grades for students will be assigned on the basis of the aggregate of the weighted marks obtained for each of the summative assessment items in the course.
 - 6 Examination information:
Candidates are allowed to bring only writing and drawing instruments into the Closed examination.
 - 7 Examination period when Deferred/Supplementary examinations will be held:
There are no Deferred or Supplementary examinations.
 - 8 University Regulations:
Students should read USQ Regulations 5.1 Definitions, 5.6. Assessment, and 5.10 Academic Misconduct for further information and to avoid actions which might contravene University Regulations. These regulations can be found at the URL <http://www.usq.edu.au/corporateservices/calendar/part5.htm> or in the current USQ Handbook.

ASSESSMENT NOTES

- 1 The due date for an assignment is the date by which a student must despatch the assignment to the USQ. The onus is on the student to provide proof of the despatch date, if requested by the examiner.
- 2 Students must retain a copy of each item submitted for assessment. This must be produced within twenty-four (24) hours of receipt of request being made by the examiner. The student must retain this copy until the grade for this course has been finalised.
- 3 In accordance with the University's assignment extension policy (Regulation 5.6.1), the examiner may grant an extension of the due date of an assignment in extenuating circumstances.
- 4 The Faculty will normally only accept assessments that have been written, typed or printed on paper-based media. The Faculty will NOT accept submission of assignments by facsimile. Students who do not have regular access to postal services or who are otherwise disadvantaged by these regulations may be given special consideration. They should contact the examiner of the course to negotiate such special arrangements.
- 5 Students who have undertaken all of the required assessments in a course but who have failed to meet some of the specified objectives of a course within the normally prescribed time may be awarded the temporary grade: IM (Incomplete - Make up). An IM grade will only be awarded when, in the opinion of the examiner, a student will be able to achieve the remaining objectives of the course after a period of non-directed personal study.
- 6 Students who, for medical, family/personal, or employment-related reasons, are unable to complete an assignment or to sit for an examination at the scheduled time may apply to defer an assessment in a course. Such a request must be accompanied by appropriate supporting documentation. One of the following temporary grades may be awarded IDS (Incomplete - Deferred Examination); IDM (Incomplete - Deferred Make-up); IDB (Incomplete - Both Deferred Examination and Deferred Make-up).
- 7 When there is more than one marker for a single item of assessment, the distributed patterns and means for the different markers will be compared and marks adjusted if necessary.

- 8 Marking criteria are provided in course material as mark sheets/guides or as part of assignment specifications.
- 9 Summative assessment items will receive a numerical score. Any ungraded assessment requirement will receive a Pass, Fail or Incomplete.

OTHER REQUIREMENTS

- 1 **IMPORTANT NOTE:** Working with Children: State law in Queensland requires that all adults (including university students, pre-service educators, trainers, vocational teachers, industry educators) working with children under the age of 18, in the state of Queensland*, obtain approval before commencing such work. Many education courses include a practical component (professional experience, project work, research, assessment etc.) that may require engagement with children under the age of 18. It is your responsibility to ensure that you possess a current suitability card (Blue Card) before commencing any practical components of this course. **DO NOT PARTICIPATE IN ANY PRACTICAL EXPERIENCE WITH CHILDREN UNDER 18 UNLESS YOU POSSESS A CURRENT 'BLUE CARD'**. For further information:
<http://www.childcomm.qld.gov.au/employment/bluecard/informationSheets.html>. *If you are undertaking practical experience outside the state of Queensland, Australia you should check local requirements.
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