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Student Advisers

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Graduate Diploma of Science

Senior Admin Officer

Graduate Diploma of Science (Exercise Rehabilitation)

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Graduate Diploma of Education

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Masters Programs

Senior Admin Officer

International Student Adviser

Dr J Alderson
Senior Admin Officer

INTRODUCTION

The School of Sport Science, Exercise and Health at The University of Western Australia, has a strong national and international research reputation and has a large graduate student body undertaking coursework programs.

Apart from a large cohort of research focused students, the School also offers a number of coursework options at graduate level which are outlined in this booklet.

The Faculty of Life and Physical Sciences, offers the following coursework options which are administered by the Faculty and the School.

FACULTY OF LIFE AND PHYSICAL SCIENCES

- Graduate Certificate in Sports Science: Coaching
- Graduate Certificate in Sports Science: Administration/Management
- Graduate Diploma in Science
- Graduate Diploma in Science (Exercise Rehabilitation)**
- Master of Science by Coursework
- Master of Science by Coursework and Dissertation
- Master of Science by Coursework and Thesis
- Two Year Master of Science (Human Movement)

GRADUATE SCHOOL OF EDUCATION

- Master of Education Coursework
- Master of Education (with emphasis on Human Movement)

Details of the degree structures are outlined within this booklet.

The degree year in the MEd can be undertaken either by thesis, thesis and coursework, or coursework only.

** Details for this course are located in the Exercise Rehabilitation Prospectus

ADMISSION

Application for admission to the following programs is made direct to the Faculty of Life and Physical Sciences for Australian citizens and through the International Centre for overseas applicants by completing the appropriate forms available at the Faculty website and submitting them to:

- Graduate Certificates in Sports Science;
- Graduate Diplomas in Science;
- Higher Degree Research Preliminary;
- Masters Coursework;
- Masters by Coursework and Dissertation;
- Masters by Thesis and Coursework; and
- Two-Year Master of Science

The Faculty Manager
Faculty of Life and Physical Sciences
M011, 35 Stirling Highway
The University of Western Australia
Crawley WA 6009

<http://www.science.uwa.edu.au/for/postgrad/apply>

The deadline for applications is also available from the Faculty website.

International students must apply through the International Centre:

<http://www.studyat.uwa.edu.au/postgrad/masters/coursework/apply>

Students who satisfactorily complete the Master's Preliminary or Graduate Diploma in order to gain entry to a Research Masters Degree **MUST** make a formal application for entry to the Masters Degree year.

Application for the research masters degree is made directly through the Graduate Research School.

<http://www.postgraduate.uwa.edu.au/>

Application for Masters by research can be made at any time throughout the year to the Graduate Research School, as commencement is not attached to formal teaching periods, but on a 1 year basis from commencement date.

ENROLMENT

Students will not be able to enrol in any program until they have received a Letter of Authority to Enrol from Student Admissions. Enrolment is completed on-line, and the student is responsible for checking his/her enrolment carefully for any errors.

Unit selections should be made for the full academic year and any subsequent changes should be discussed with an adviser prior to any changes being made on-line by students. Students should be aware that, if they wish to change units, they must do so within the first 3 weeks of the semester to avoid any financial penalty. Please note that all **IMPORTANT DATES AND DEADLINES** for students are available at Student Connect:

<https://student.sims.admin.uwa.edu.au/connect/webconnect>

If it is not possible for a candidate to remain enrolled, a student may apply for a Suspension of Candidature for a specified period. If a candidate wishes to withdraw completely from the program, a Course Withdrawal Form needs to be completed on-line through Student Connect.

TIME FOR COMPLETION OF PROGRAMS

Each level of postgraduate study has specific requirements as listed below:

Graduate Certificate in Sports Science: Coaching

- Semester 1 only (13 weeks February to June)

Graduate Certificate in Sports Science: Administration/Management

- Semester 2 only (13 weeks July to November)

Graduate Diploma in Science

- 1 year (mid-year entry also available)

Graduate Diploma in Science (Exercise Rehabilitation)**

- 1 year (mid-year entry also available)

Higher Degree Research Preliminary

- 2 year program (mid-year entry also available)

Master of Science Coursework

- 1 year (4 units per semester, mid-year entry also available)

Master of Science Coursework and Dissertation

- 1 year (3 units and dissertation in 1 year)

Master of Science Coursework and Thesis

- 1 year to 1.5 years (2 units and thesis)

Two Year Master of Science (Human Movement)

- 1 year to complete the Graduate Diploma in Science and one year to complete the Masters component

GRADUATE SCHOOL OF EDUCATION

Master of Education Coursework

- 1 year (4 units per semester, mid-year entry also available)

Master of Education (with emphasis on Human Movement)

Coursework and Thesis

- 2 years

GENERAL STUDY AND RESEARCH DIRECTIONS:

Biomechanics, Motor Control and Development

Exercise Physiology and Biochemistry

Health Behaviour and Performance Psychology

Health and Physical Education

Exercise Rehabilitation

ADMISSION REQUIREMENTS FOR EACH COURSE

GRADUATE CERTIFICATES

Candidates seeking admission to the Graduate Certificates would be expected to hold a Bachelors degree of this University or have been admitted to equivalent status; and demonstrate extensive coaching experience with sports clubs/organizations and/or extensive administrative/management experience with sports clubs/organizations.

GRADUATE DIPLOMAS

This Diploma is intended for students wishing to undertake specialization in professional preparation (e.g. those seeking Australian Association of Exercise and Sports Science (AAESS) accreditation).

The Diploma may, with permission from the Head of School and Sub-Dean of the Faculty of Life and Physical Sciences, progress to the Masters Program.

HIGHER DEGREE RESEARCH PRELIMINARY

Higher Degree Research Preliminary can be either one semester, or two semesters of study. Candidates need to have completed Honours or a 4 year equivalent degree in an appropriate discipline (e.g. science, physiotherapy).

MASTERS BY COURSEWORK, MASTERS BY COURSEWORK AND DISSERTATION, MASTERS BY THESIS AND COURSEWORK

Acceptable criteria for entry into a Master degree requires one of the following:

- Bachelor degree with Honours in Faculty of Life and Physical Sciences (FLPS) or equivalent status.
- Bachelor degree with Honours in another Faculty or has been granted equivalent status, and who proves to FLPS, by passing a written or oral examination as the Faculty may require, fitness to be a candidate.

- Bachelor degree in another Faculty or has been granted equivalent status, and who has since graduation passed the Higher Degree Research Preliminary examination.**
- Bachelor degree in FLPS or another Faculty who has been granted equivalent status, and who proves to FLPS, and who satisfies the Head of School that adequate research preparation has occurred since graduation.
- Bachelor of Science Degree with Honours in Exercise and Health Science (4 years)
- 4 year Bachelor of Exercise Rehabilitation degree having completed the units HMES7602 Research Methods and HMES7603 Data Analysis in Sport Science, Exercise and Health as part of the 4th year.
- Graduate Diploma in Science, majoring in Human Movement and Exercise Science.
- Graduate Diploma in Science (Exercise Rehabilitation). Providing HMES7602 and HMES7603 have been completed successfully.

**Where the candidate's first degree is not in Sport Science, Exercise and Health, the Higher Degree Research Preliminary program may be augmented by selected work from the appropriate undergraduate program (see course requirements in a later section).

Full details of course requirements are to be found later in the booklet.

Masters candidates will not be permitted to continue with their studies should they fail to make satisfactory progress in any semester and cannot withdraw from a unit after the final withdrawal date set by the University without incurring a penalty.

English Language Competency

Applicants should note that acceptance by the Head of the relevant School implies the candidate's English language proficiency is adequate. Applicants whose first language is not English must pass a recognised English language proficiency test (TOEFL = 550 minimum or IELTS = 6.5 with minimum of 6 in each band) prior to being admitted to PhD candidature. Scholarship applicants are required to have a TOEFL of 580 and a Test of Written English of 4.5

**GRADUATE CERTIFICATE IN SPORTS SCIENCE:
COACHING (Course Code 51230) Available in Semester 1.**

The Graduate Certificate program in Human Movement and Exercise Science is a full-fee program intended for candidates wishing to obtain further qualifications in an area of expertise.

Candidates seeking admission to the Graduate Certificate would be expected to hold a Bachelors degree of this University or have been admitted to equivalent status; and demonstrate extensive coaching experience with sports clubs/organisations. The Graduate Certificate comprises 24 points, with a choice from the following units of 6 points each:

Core Units (12 points)

HMES8465 Level II Coaching Accreditation Course; and
HMES8466 Coaching Practicum

Choose 2 units to the value of 12 points

HMES3345 Motor Skill Development
HMES3355 Biomechanics
HMES3365 Sports Physiology
HMES3375 Psychology of Sport

This course allows national and international graduates the opportunity to complete a one semester certificate of graduate study to gain a further qualification. There will also be an opportunity for candidates to obtain the following qualifications at full cost:

- First Aid Certificate
- Sports Trainer Certificate
- Australian Coaching Council Strength & Conditioning Certificate
- Sports Specific Certificates

Applications for these programs must be received by the Faculty of Life and Physical Sciences by close of enrolments in December for commencement in the following academic year.

**GRADUATE CERTIFICATE IN SPORTS SCIENCE:
ADMINISTRATION/MANAGEMENT (Course Code 51230)
Available in Semester 2.**

The Graduate Certificate program in Human Movement and Exercise Science is a full-fee program intended for candidates wishing to obtain further qualifications in an area of expertise.

Candidates seeking admission to the Graduate Certificate would be expected to hold a Bachelors degree of this University or have been admitted to equivalent status; and demonstrate extensive administrative/management experience with sports clubs/organisations. The Graduate Certificate comprises 24 points, with the following units of 6 points each:

Core Units (12 points)

HMES8467 Sports Administration/Management Practicum
HMES8468 Sports Club/Association Management Marketing

Choose 2 units to the value of 12 points

HMES 3339 Community and Worksite Health Promotion
HMES 3376 Coaching Psychology
HMES 3377 Sport, Health and Recreation Marketing

This course allows national and international graduates the opportunity to complete a one semester certificate of graduate study to gain a further qualification. There will also be an opportunity for candidates to obtain the following qualifications at full cost:

- First Aid Certificate
- Sports Trainer Certificate
- Australian Coaching Council Strength & Conditioning Certificate
- Sports Specific Certificates

Applications for these programs must be received by the Faculty of Life and Physical Sciences by the end of enrolments in December for commencement in semester 2 of the following academic year.

GRADUATE DIPLOMA IN SCIENCE (Course Code 50300)

Candidates seeking admission to the Graduate Diploma of Science would normally be expected to have a BSc degree in Exercise and Health Science or its equivalent. The Graduate Diploma of Science comprises:

Core Units (12 points)

HMES7602 Research Methods

HMES7603 Data Analysis

Plus 6 x 6 point units to the value of 36 points

Units should be selected from those offered within the School of Sport Science, Exercise and Health under the relevant sub-disciplines contained herein.

This course allows Science graduates the opportunity to complete just one year (full-time) of graduate study to gain a further qualification. For students to be eligible to continue to Masters Level, a GPA of at least 65% is required at the graduate diploma level.

It should also be noted that the Graduate Diploma in Science is a full-fee program. The total fees payable each year depends on the total points value of the units taken each semester.

An application form is available from the following website:

<http://www.science.uwa.edu.au/for/postgrad/apply>

and should be forwarded to

The Faculty Manager
Faculty of Life and Physical Sciences
M011, 35 Stirling Highway
The University of Western Australia
Crawley WA 6009

and can be lodged with the Faculty from mid October until mid December preceding the year of intended study.

Mid-year entry is also available.

GRADUATE DIPLOMA IN EDUCATION (Course Code 31400)

Students who wish to qualify as secondary school teachers can apply for enrolment in the Graduate Diploma in Education program when they have completed a Bachelors degree either at The University of Western Australia or at another recognised tertiary institution.

The Graduate Diploma is accepted as a teaching qualification in Western Australian government and non-government schools, and throughout Australia. The course requires a minimum of one year of full-time study. The requirements include 12 weeks of school teaching practice experience in schools. Because of the coherence of the whole program, part-time study is discouraged. Students must have the approval of the Dean of Education to enrol on a part-time basis.

The course allows students to reflect on, and research, classroom practices; and has core requirements in curriculum studies, teaching and learning perspectives, policies in education research and school experience.

In this degree, students should have completed three years of study in the major curriculum area in which they wish to teach (for the School Psychology stream students need a four year degree), and preferably two years of study in their minor curriculum area. For the minor curriculum areas of Information Communication and Technology, Career Education and Special Education, no prior academic studies are required.

The Diploma comprises units to the value of 60 points as follows:

- **a major curriculum unit** - select from English, Information and Communication Technology, LOTE, Mathematics, Physical Education, Science, Society and the Environment, TESOL, and School Psychology.
- **a minor curriculum unit** – select from Career Education, Information and Communication Technology, LOTE, Mathematics, Science, Society and the Environment, Special Education and TESOL.
- 5 core units
- 2 optional units
- 2 school experience units

Initial enquiries should be directed to:

Faculty Administrative Officer/
Director of Teaching
Graduate School of Education, M428
Telephone: (+61 8) 6488 2397/2382
E-mail: zan.blair@uwa.edu.au

HIGHER DEGREE BY RESEARCH PRELIMINARY **(Course Code 50490)**

Course Requirements

Course requirements for a Masters Preliminary are determined by the Higher Degrees Committee of the Faculty of Life and Physical Sciences on the recommendation of the School of Sport Science, Exercise and Health. These will vary among students because the Preliminary aims to ensure that a candidate will be adequately prepared to attempt the relevant Masters Degree work. The Preliminary is not, in itself, an academic qualification.

Where the candidate lacks a background in Sport Science, Exercise and Health or the behavioural or social sciences, the Preliminary may be augmented by undergraduate level units.

Requirements for the Preliminary are listed below.

Total requirement = 48 points

Core Units (12 points)

HMES7602 Research Methods

HMES7603 Data Analysis

Choose 6 x 6 point units from graduate level units offered by SSEH as listed under the sub-disciplines contained herein. One external unit can be substituted for one of these 6 point units with the approval of the Head of the School.

MASTER OF SCIENCE/MASTER OF EDUCATION

Two programs of study at the Masters level are offered by SSEH; one in the Faculty of Life and Physical Sciences which leads to an MSc Degree, and one in the Faculty of Education which leads to an MEd Degree.

The requirements of the MEd Degree are different from those for the MSc Degree. Students who have completed a Bachelors degree, a Diploma of Education and have at least two years of full-time professional educational experience, or a proven research background, can be admitted directly to the MEd.

Students undertaking the MEd Degree are required to complete the following two core units:

HMES7602 Research Methods

HMES7603 Data Analysis

as part of the coursework structure. Students are expected to complete a one year Masters by coursework or a combination of thesis and coursework.

The Master of Education program is intended for students with an interest in sports and exercise science in the educational (general school) setting. These students may wish to study issues related to educational technology or any of the above-mentioned SSEH units related to the movement education of children.

MASTERS PROGRAM

The Masters program in SSEH is intended for students wishing to undertake advanced study and/or research majoring in Exercise Science. Students must choose a sub-discipline area as a major when enrolling in the MSc program. (Please refer to the Faculty of Life and Physical Sciences Regulations.)

Areas of specialisation for the MSc include:

- Biomechanics
- Motor Control and Learning
- Physiology of Exercise
- Exercise Biochemistry
- Exercise, Health and Sport Psychology
- Functional Anatomy and Growth
- Exercise Science and the Disabled

- Exercise Rehabilitation (eg, musculoskeletal and cardiac rehabilitation)
- Corporate/Community Health Management

Areas of specialisation for the MEd:

- Psycho-social Aspects of Recreation and Sport
- Pedagogy/Teacher Education

All requirements for any unit must be completed within the period of a year in which the unit is timetabled. Extensions of time to complete unit requirements will only be granted in extenuating circumstances and only with written approval from the Head of School.

HMES7691 Research Practicum I, HMES7692 Research Practicum II and HMES8694 Research Colloquium may only be taken during the Masters Preliminary by candidates intending to complete the degree year by research thesis or dissertation.

A candidate wishing to progress to the Master of Science by way of research (thesis or dissertation) will be required to complete the following two core units as part of the Honours, Masters Preliminary or Graduate Diploma of Science program.

Core units (12 points)

HMES7602 Research Methods
 HMES7603 and Data Analysis

All units have a 6 point value during each of the Preliminary and Degree stages.

Students should ensure that they have the necessary pre-requisites, (or equivalent), before enrolling in a particular unit. Pre-requisites are listed as part of the unit descriptions. Students who do not have the necessary undergraduate preparation in areas that they wish to pursue at a postgraduate level, can enrol in HMES7606 Special Topics or HMES7607 Special Topics unit in either semester, with special approval, in order to gain the necessary background.

MSc DEGREE STRUCTURE

The MSc degree may be completed by one of the following options:

- **Coursework (Course Code 51550)**
- **Coursework + Dissertation (Course Code 51530)**
- **Research Thesis (Course Code 50710)**
- **Research Thesis + Coursework (Course Code 51610)**

Masters by Coursework (Course Code 51550)

Candidates must successfully complete 8 x 6 point units not previously completed from one of the sub-discipline groups contained herein.

Students need to enrol in the following two core units:

HMES7602 Research Methods in HMES

HMES7603 Data Analysis in HMES.

Plus, 6 x 6 point units selected from the sub-discipline lists.

Students should take this into consideration if undertaking an MSc Preliminary year.

Masters by Coursework and Dissertation (Course Code 51530)

To complete a Masters by Coursework and Dissertation, candidates must enrol in 3 x 6 point units and complete a dissertation.

Students need to enrol in the following two core units:

HMES7602 Research Methods in HMES

HMES7603 Data Analysis in HMES

plus one other 6 point unit, preferably in the discipline area of the dissertation.

A dissertation is a scholarly research report, which is examined through the Graduate Research and Scholarship Office (approximately 15,000 words).

Credit may also be granted for up to 3 units at Masters Level completed as part of another incomplete course in this University or at another recognised tertiary institution. This regulation applies to MSc and MEd Coursework Degrees, or to students doing Coursework plus Dissertation degrees for the Masters.

Masters by Research Thesis Degree (Course Code 50710)

Research projects leading to a research thesis are conducted under the guidance of a supervisor(s) determined by mutual agreement between the student and the staff member(s), and endorsed by the School's Higher Degree and Ethics Committee and the Graduate Research and Scholarships Office. It is the duty of the candidate and supervisor to keep in regular contact (fortnightly meetings are recommended). The candidate is required to complete an Annual Report on the anniversary of enrolment and the supervisor(s) is/are also required to report on the candidate's progress.

Candidates are expected to present a detailed research proposal to the School Higher Degree and Ethics Committee within four (4) months of acceptance into the Masters Program. Once the proposal has been presented and approved by the Committee it is then forwarded to the Graduate Research and Scholarships Office for approval. Candidates must also complete an Ethics application at this time. **A student cannot commence any research until both the Research Proposal and Ethics Application have been approved.**

A program of seminars is organised within the School on alternate weeks to provide an opportunity for each student to present their thesis or dissertation to the Higher Degree Committee. These seminars are intended to generate an exchange of constructive comments for the assistance of the candidate and others in the conduct of their research. All Honours, Masters and PhD degree candidates are expected to attend these seminars.

Candidates preparing research proposals should provide one electronic version of the full proposal in a Word document to the Senior Administrative Officer one week before the seminar is to be held. The proposal should be a brief synopsis of the research plan together with a detailed budget.

All proposals must be approved in the first instance by the candidate's supervisor(s). In preparing this proposal, consideration must be given to the University rules relating to Research Conduct and Human Rights.

UNIT LIST

NO.	UNIT TITLE	2007
HMES7602	.....Research Methods in HMES	..... Sem 1
HMES7603	.....Data Analysis in HMES	..... Sem 1
HMES7606	.....Special Topics	..... Sem 1 or Sem 2
HMES7607	.....Special Topics	..... Sem 1 or Sem 2
HMES7633	.....Advanced Biomechanical Methods	..... Sem 1
HMES7634	.....Advanced Neuromuscular Biomechanics	..... Sem 2
HMES7643	.....Cardiac Rehabilitation	..... Sem 2
HMES7644	.....Advanced Exercise Physiology	..... Sem 1
HMES7645	.....Workplace Injury Prevention and Management	..... Sem 1
HMES7646	.....Exercise Rehabilitation for Chronic and Complex Conditions	..... Sem 1
HMES7651	.....Musculoskeletal Rehabilitation	..... Sem 1
HMES7654	.....Advanced Concepts in Motor Control and Learning	.....Sem 2
HMES7664	.....Exercise and Health Psychology	..... Sem 2
HMES7685	.....Worksite Health Promotion	..... Sem 2
HMES7691	.....Research Practicum I	..... Sem 1
HMES7692	.....Research Practicum II	..... Sem 2
HMES8475	.....Advanced Psychology of Sport	..... Sem 1
HMES8694	.....Research Colloquium	..... Sem 1 or Sem 2

Graduate Diploma in Education Units

HMES8464.....Physical Education Curriculum I	Sem 1
HMES8474.....Physical Education Curriculum II	Sem 2
HMES8491.....Health Education in the Curriculum	Sem 1
HMES8492.....Health Promotion in Schools	Sem 2

Graduate Certificates in Sports Science Units only

Coaching

HMES8465.....Level II Coaching Accreditation Course.....	Sem 1
HMES8466.....Coaching Practicum	Sem 1
HMES3345.....Motor Skill Development.....	Sem 1
HMES3355.....Biomechanics	Sem 1
HMES3365.....Sports Physiology	Sem 1
HMES3375.....Psychology of Sport.....	Sem 1

Administration/Management

HMES8467.....Sports Administration/Management Practicum	Sem 2
HMES8468.....Sport Club/Association Management Marketing	Sem 2
HMES3339.....Community and Worksite Health Promotion.....	Sem 2
HMES3376.....Coaching Psychology.....	Sem 2
HMES3377.....Sport, Health and Recreation Management.....	Sem 2

Please note that units listed are subject to change without prior notice. Please be advised that students are ultimately responsible for checking enrolment records.

SUB-DISCIPLINE UNIT SELECTION TO QUALIFY FOR A DEGREE BY COURSEWORK, COURSEWORK AND DISSERTATION, THESIS AND COURSEWORK

(i) Biomechanics, Motor Control and Development

HMES7602	HMES7603	HMES7606	HMES7607
HMES7633	HMES7634	HMES7651	HMES7654
HMES7691	HMES7692	HMES8694	

(ii) Exercise Physiology and Biochemistry

HMES7602	HMES7603	HMES7606	HMES7607
HMES7633	HMES7643	HMES7644	HMES7646
HMES7651	HMES7691	HMES7692	HMES8694

(iii) Health Behaviour and Performance Psychology

HMES7602	HMES7603	HMES7606	HMES7607
HMES7664	HMES7685	HMES7691	HMES7692
HMES8694			

Research component codes

HMES8718	HMES MSc Dissertation Full-time Part 1 (15 points)
HMES8719	HMES MSc Dissertation Full-time Part 2 (15 points)
HMES9925	HMES MSc Thesis Full-time
HMES9827	HMES MSc Thesis Part-time

The Sub Dean may, having regard to the recommendation of the Head of the School of Sport Science, Exercise and Health:

- approve the substitution of one unit from a different sub-discipline for a unit from the sub-discipline group selected; and
- approve the substitution of one unit from outside the school for a unit listed above
- grant credit for up to two units listed above on the basis of units completed as part of another incomplete course at this University or at another recognised Institution.

UNIT DESCRIPTIONS

Details regarding assignments, assessment and readings are available from the unit coordinators.

HMES7602 RESEARCH METHODS Semester 1 (6 Points)

This unit gives an overview of the conceptual aspects of the research process as it functions in the field of sport, science exercise and health and to assist in the development of a research proposal.

Coordinator	Lectures:	Labs
Dr Michael Rosenberg Phone: +61 8 6488 2360 Fax: +61 8 6488 1039	2 hours per week	1 hour per week

HMES7603 DATA ANALYSIS Semester 1 (6 Points)

This unit covers conceptual issues and practical skills unique to quantitative data analysis in the field of human movement and exercise science.

Coordinator	Lectures	Lab
Professor J R Grove Phone: +61 8 6488 2369 Fax +61 8 6488 1039 Bob.Grove@uwa.edu.au	1.5 hours per week	2 hours per week

HMES7606 SPECIAL TOPICS/ HMES7607 SPECIAL TOPICS

Semester 1 or Semester 2 (6 Points)

This unit is only available to students who have not previously studied at UWA and who may need to enrol in a unit at Level 3 to provide them with sufficient background to undertake other graduate units. Students will only be permitted to enrol in this unit with permission of Head of School or program coordinator.

Coordinator	Lectures/Labs
Program coordinator	As per Level 3 unit requirements plus additional assignments

HMES7633 ADVANCED BIOMECHANICAL METHODS

Semester 1 (6 points)

This unit provides detailed instructions in advanced motion analysis techniques, including video camera theory, 3D movement analysis systems, and video image analysis systems and the vector mathematics underpinning the 3D movement analysis. It also studies how kinematic and kinetic data can be incorporated in the analysis of gait, sport techniques and occupationally based movement patterns.

Advisable prior study: HMES3355 Biomechanics

Coordinator	Lectures/Labs:
Dr D Lloyd Phone: +61 8 6488 3919 Fax: +61 8 6488 1039 dllloyd@cyllene.uwa.edu.au	2 hours per week – Lectures 2 hours per week - Labs

HMES7634 NEUROMUSCULAR BIOMECHANICS

Semester 2 (6 points)

The focus of this unit is on the neuromuscular mechanisms that govern human movement. More detailed information regarding this unit will be available early in 2009. Please contact the unit coordinator.

Advisable prior study: HMES3355 Biomechanics

Coordinator	Lectures/Labs:
Dr Jonas Rubenson Phone: +61 8 6488 2608 Fax: +61 8 6488 1039 jonas@cyllene.uwa.edu.au	2 hours per week - Lectures 2 hours per week - Labs

HMES7643 CARDIAC REHABILITATION

Semester 2 (6 points)

This unit focuses on the causes, management and prevention of coronary heart disease. The role of rehabilitative exercise in prevention of atherosclerotic disease is emphasised. The unit also covers the development of practical skills for risk assessment of patients with an existing history of disease, and stratification of these patients according to the future risk/benefit ratio of exercise. Contemporary medical management of cardiovascular disease is reviewed.

Advisable prior study: HMES2260 or equivalent knowledge of exercise physiology in healthy populations

Coordinator	Lectures/Labs:
A/Prof. D Green Phone: +61 8 6488 2361 Fax: +61 8 6488 1039 d.j.green@ljmu.ac.uk	3 hours per week plus practicum work

HMES7644 ADVANCED EXERCISE PHYSIOLOGY

Semester 1 (6 points)

Issues and topics of current interest in exercise physiology are explored and measurement techniques practiced through a combination of lectures, seminars, laboratories and field work. Students are expected to have a sound working knowledge of undergraduate exercise physiology to undertake this unit. Certain topics are covered in more detail in class (energy metabolism, training practices, ergogenic aids and supplements) and laboratory measures for athlete assessment are practiced.

Prerequisite: Two units in exercise physiology.
Advisable Prior Study: HMES2260 Exercise Physiology and HMES3365 Sport Physiology

Coordinator	Lectures/Labs:
Professor B Dawson Phone: +61 8 6488 2276 Fax: +61 8 6488 1039 bdawson@cyllene.uwa.edu.au	3 hours per week plus practicum work

HMES7645 WORKPLACE INJURY PREVENTION AND MANAGEMENT

Semester 1 (6 points)

This unit focuses on worksite medical and injury management in the workplace. It will investigate the systematic basis of injury prevention and rehabilitation and introduce students to the mechanics of safety, risk management, injury management, functional rehabilitation and exercise prescriptions within a return to work environment.

Prerequisite: HMES2260 Exercise Physiology or equivalent.

Coordinator	Lectures/Labs:
Ms Linda Gilbert (External) Phone: +61 8 6488 2360 Fax: +61 8 6488 1039	3 hours per week plus practicum work

HMES7646 EXERCISE REHABILITATION FOR CHRONIC AND COMPLEX CONDITIONS

Semester 1 (6 points)

This unit will focus on medical conditions such as coronary heart disease, asthma, diabetes, osteoporosis, arthritis, pregnancy and obesity, with respect to exercise implications and management and where appropriate, the physiology and biochemistry which underlie the development and onset of these conditions. A combination of lectures/seminars and laboratory experiences will be used in this unit.

Advisable Prior Study: HMES3301, HMES3302, HMES3389

Coordinator	Lectures/Labs:
Dr Jay Ebert Phone: +61 8 6488 2360 Fax: +61 8 6488 1039 jebert@cyllene.uwa.edu.au	2 hours per week – Lectures 1.5 hrs x 6 weeks – Labs Practicum Work

HMES7651 MUSCULOSKELETAL REHABILITATION

Semester 1 (6 points)

This unit examines the role of exercise during rehabilitation of individuals who have problems with their musculoskeletal systems from either injury, disease or degeneration, or who have undergone surgery. The unit examines the functional anatomy of the spine and the major joints of the body, integrating this with pathology, dysfunction and rehabilitation.

Prerequisite: HMES3389 or equivalent

Coordinator	Lectures/Labs:
Dr Jay Ebert Phone: +61 8 6488 2360 Fax: +61 8 6488 1039 jebert@cyllene.uwa.edu.au	3 hours per week plus project work

HMES7654 ADVANCED CONCEPTS IN MOTOR CONTROL AND LEARNING

Semester 2 (6 points)

This unit builds upon undergraduate knowledge by exploring advanced concepts within the domain of motor control, motor learning and lifespan motor development. This unit is designed to encourage students to think critically about our current understanding of how the central nervous system (CNS) organizes and controls movements, how sensory feedback contributes to motor control, how practice leads to new skills being learnt and/or refines expertise skills, and how practice can best facilitate learning and development of expertise.

Advisable prior study HMES2240, HMES3345, HMES3346, HMES3385

Coordinator	Lectures/Labs:
Dr Brendan Lay Phone: +61 8 6488 8788 Fax: +61 8 6488 1039 blay@cyllene.uwa.edu.au	2 hours per week plus project work

HMES7664 EXERCISE AND HEALTH PSYCHOLOGY

Semester 2 (6 points)

This unit focuses on the psychological aspects of exercise and health behaviour. Particular emphasis is directed toward the psychology in injury rehabilitation and the psychological aspects of exercise, both in terms of the adoption/maintenance of exercise behaviours and the consequences of exercise for mental health.

Prerequisites: 12 points of Level 3 Sport Science, Exercise and Health units or 12 points of Level 3 Psychology units

Coordinator	Lectures/Labs:
Dr Sandy Gordon Phone: +61 8 6488 2375 Fax: +61 8 6488 1039 Sandy.Gordon@uwa.edu.au	3 hours per week

HMES7685 WORKSITE HEALTH PROMOTION

Semester 2 (6 points)

This unit examines population-based approaches to promoting physical activity. The unit covers the rationale for different health promotion strategies; effectiveness of interventions in communities and worksites aimed at various populations; and the process and policies of advocacy for physical activity. Examples of programs from within Australia and overseas are used. Students write and present a community/worksite health proposal and an in-depth study in physical activity and health promotion.

Advisable prior study: HMES2290 Physical Activity and Health

Incompatibility: HMES3339

Coordinator	Lectures/Labs:
Dr Rebecca Braham Phone: +61 8 6488 2365 Fax: +61 8 6488 1039 rbraham@cyllene.uwa.edu.au	3 hours per week

HMES7691 RESEARCH PRACTICUM I*

Semester 1 (6 points)

This unit is an individualized project and/or practical work involving laboratory experimentation, community service or research, undertaken in any of the areas of major study under the supervision of an academic staff member or designate. Students undertaking the practicum as part of the Bachelor of Exercise Rehabilitation Science or The Graduate Diploma in Science (Exercise Rehabilitation) undertake formal practical work within the school as well as practicum placements within the clinical and community environments as arranged by the practicum coordinator.

Prerequisite: HMES3389, HMES3390 or equivalent as approved by Head of School

Advisable prior study: HMES3301

Practicum Coordinator	Lectures/Labs:
Mrs K Smith Phone: +61 8 6488 2474 Fax: +61 8 6488 1039 ksmith@cyllene.uwa.edu.au	5 hours per week or equivalent

*Students taking this unit must also complete unit HMES7692

HMES7692 RESEARCH PRACTICUM II**

Semester 2 (6 points)

This unit is an individualised project and/or practical work involving laboratory experimentation, community service or research, undertaken in any of the areas of major study under the supervision of an academic staff member or designate. Students undertaking the practicum as part of the Bachelor of Exercise Rehabilitation Science or The Graduate Diploma in Science (Exercise Rehabilitation) undertake formal practical work within the school as well as practicum placements within the clinical and community environments as arranged by the practicum coordinator.

Prerequisite: HMES3389, HMES3390 or equivalent as approved by Head of School

Advisable prior study: HMES3301

Practicum Coordinator	Lectures/Labs:
Mrs K Smith Phone: +61 8 6488 2474 Fax: +61 8 6488 1039 ksmith@cyllene.uwa.edu.au	5 hours per week or equivalent

**Students taking this unit must also complete unit HMES7691

HMES8475 ADVANCED PSYCHOLOGY OF SPORT

Semester 1 (6 Points)

This unit is appropriate for upper-level undergraduates or entry-level postgraduates. It provides a more in-depth treatment of the psychological aspects of exercise and sport than that provided by HMES3375 Psychology of Sport. Primary attention is given to social psychological models and theories applicable to behaviour in exercise and sport settings.

Advisable prior study: HMES2270 and 6 points of Level 2 human movement or psychology units.

Coordinator	Lectures:	Project Work
Professor J R Grove Phone: +61 8 6488 2369 Fax +61 8 6488 1039 Bob.Grove@uwa.edu.au	3 hours per week	60 hours

HMES8694 RESEARCH COLLOQUIUM

Semester 1 or 2 (6 points)

This unit provides an in-depth examination of the literature pertaining to an approved topic selected by the student in consultation with a member of the academic staff. Normally a major position paper is required as partial fulfillment of this unit.

Prerequisite: Relevant background in the field of intended study, together with arranged supervision and permission of the Head of School.

Coordinator	Lectures/Labs:
Supervisor	3 hours per week (or equivalent)

GRADUATE DIPLOMA IN EDUCATION UNITS

These units are available to Graduate Diploma of Education students only.

HMES8464 PHYSICAL EDUCATION CURRICULUM*

Semester 1 (6 Points)

The Graduate Diploma in Education is a pre-service professional course in which the integration of theory and practice is the major organising principle. This unit is for Physical Education majors completing the one-year Graduate Diploma in Education teacher training course. It qualifies students to teach in government and private, secondary and primary, schools in Australia and overseas.

Advisable prior study: HMES3337/HMES3338

Coordinator	Lectures and Project Work
Mr Martin Anderson and Dr Peter Whipp Phone: +61 8 6488 3918/2793 martina@cyllene.uwa.edu.au pwhipp@cyllene.uwa.edu.au Fax: +61 8 6488 1039	3 hours per week of lectures and approximately 60 hours of project work

*Students doing this unit must also take unit HMES8474

HMES8474 PHYSICAL EDUCATION CURRICULUM II*

Semester 2 (6 Points)

The Graduate Diploma in Education is a pre-service professional course in which the integration of theory and practice is the major organisation principle. This unit is for Physical Education majors completing the one year Graduate Diploma in Education teacher training course. It qualifies students to teach in government and private, secondary and primary, schools in Australia and overseas.

Advisable prior study: HMES3337

Coordinator	Lectures:	Project Work
Mr Martin Anderson and Dr Peter Whipp Phone: +61 8 6488 3918/2793 martina@cyllene.uwa.edu.au pwhipp@cyllene.uwa.edu.au Fax: +61 8 6488 1039	3 hours per week (approx.)	60 hours

*Students doing this unit must also take unit HMES8464

HMES8491 HEALTH EDUCATION

Semester 1 (6 Points)

This unit is concerned with exploring and developing health education and promotion skills. Lesson planning, presentation skills, group facilitation, pedagogical content knowledge and the use of health-related teaching aids serve to frame the content focus. Societal health issues relevant to secondary school students are examined to provide the medium through which the individual participant develops teaching skills.

Coordinator	Lectures:
Dr P Whipp Phone: +61 8 6488 2793 Fax: +61 8 6488 1039 pwhipp@cyllene.uwa.edu.au	3 hours per week Workshops Health extension evening Role-play night.

HMES8492 HEALTH PROMOTION IN THE SCHOOLS

Semester 2 (6 Points)

This unit studies societal health issues - the knowledge, values, skills and behaviours that promote a healthy lifestyle. The issues covered concentrate on adolescent health problems that affect Western Australian secondary school students. As such some of the topics include HIV, incest, suicide, sexual coercion, and relationships.

Coordinator	Lectures:
Dr P Whipp Phone: +61 8 6488 2793 Fax: +61 8 6488 1039 pwhipp@cyllene.uwa.edu.au	Lectures: 3 hours per week Field work/labs: 2 hours per week Role-play night Mission Statement night

GRADUATE CERTIFICATES IN SPORTS SCIENCE UNITS ONLY

The two units below are available to Graduate Certificate of Science: Coaching students only.

HMES8465 LEVEL II COACHING ACCREDITATION COURSE

Semester 1 (6 Points)

This intensive course, covers the multi-faceted sub-disciplines of coaching, and is available to experienced coaches seeking the latest scientific evidence-based coaching protocols for athletes.

HMES8466 COACHING PRACTICUM

Semester 1 (6 Points)

This unit is an individualised 100 hour coaching practicum in a selected sports discipline, through placement with a sporting team/organisation.

Prerequisites: For both units students require a Bachelors Degree or equivalent status and demonstrated extensive coaching experience with sports.

Certificate Coordinator	Lectures/Practicum
Dr Sandy Gordon Phone: +61 8 6488 2375 Fax: +61 8 6488 1039 sandy.gordon@uwa.edu.au	Intensive course for HMES8465 100 Practicum for HMES8466

Details of undergraduate units can be found in the Undergraduate Prospectus

- HMES3345 Motor Skill Development (Page 29)
- HMES3355 Biomechanics (Page 30)
- HMES3365 Sports Physiology (Page 31)
- HMES3375 Psychology of Sport (Page 32)

The two units below are available to Graduate Certificate of Science: Administration/Management students only.

HMES8467 SPORT ADMINISTRATION/MANAGEMENT PRACTICUM

Semester 2 (6 Points)

This unit is an individualized 100 coaching practicum in a selected sports discipline, through placement with a sporting team/organisation.

HMES8468 SPORT CLUB/ASSOCIATION MANAGEMENT MARKETING

Semester 2 (6 Points)

This two week intensive course, covering the multi-faceted sub-disciplines of management/marketing of sports clubs and associations is available to experienced sports administrators/managers seeking the latest scientific evidence-based protocols for athletic administration, management and marketing.

Prerequisites: For both units students require a Bachelors Degree or equivalent status and demonstrated extensive administrative experience with sports clubs/organisations.

Certificate Coordinator	Lectures/Practicum
Dr Sandy Gordon Phone: +61 8 6488 2375 Fax : +61 8 6488 1039 sandy.gordon@uwa.edu.au	A major written assignment plus 2 hour examination for HMES8468 and 100 hour practicum for HMES8467

Details of undergraduate units can be found in the Undergraduate Prospectus

- HMES3339 Community and Worksite Health Promotion (Page 29)
- HMES3376 Coaching Psychology (Page 32)
- HMES3377 Sport, Health and Recreation Management (Page 33)