

**School Vision and Mission Statements
(Achieving International Excellence)**

Vision

The School of Sport Science, Exercise and Health will be recognised internationally for its excellence in teaching and research and as a leading intellectual and creative resource to the communities it serves.

Mission

To further the understanding of the mechanisms and processes underlying skilled movements and the means by which they are influenced by physiological, biomechanical, psychological and social factors.

Values

Excellence

Leadership

Innovation

Integrity

SPORT SCIENCE, EXERCISE AND HEALTH

ACADEMIC TEACHING STAFF

Biomechanics, Motor Control & Development

Winthrop Professor Tim Ackland
Assistant Professor Jacqueline Alderson
Mr Nat Benjanuvatra
Winthrop Professor Bruce Elliott
Assistant Professor Brendon Lay
Dr Melissa Licari
Associate Professor David Lloyd
Assistant Professor Jonas Rubenson

Exercise Physiology & Biochemistry

Winthrop Professor Brian Dawson
Professor Paul Fournier
Professor Danny Green
Assistant Professor Kym Guelfi
Assistant Professor Grant Landers
Associate Professor Karen Wallman

Health Behaviour & Performance Psychology

Assistant Professor Rebecca Braham
Assistant Professor James Dimmock
Associate Professor Sandy Gordon
Winthrop Professor Robert Grove

Health & Physical Education

Mr Martin Anderson
Dr Peter Whipp
Rev. Canon Richard Pengelley

Exercise Rehabilitation

Winthrop Professor Tim Ackland
Mrs Kerry Smith

Research

Research Associate Siobhan Reid

Health Promotion Evaluation Unit

Professor Michael Rosenberg
Ms Christina Mills
Ms Renee Ferguson

STUDENT ADVISERS

Undergraduate Adviser Co-ordinator

Assistant Professor Grant Landers

1st Year

Mr Martin Anderson

Assistant Professor James Dimmock

Dr Melissa Licari

2nd Year

Mr Nat Benjanuvatra

Assistant Professor Rebecca Braham

Associate Professor Karen Wallman

3rd Year

Assistant Professor Brendan Lay

Assistant Professor Jonas Rubenson

Bachelor of Exercise Rehabilitation

Winthrop Professor Tim Ackland

4th Year Programmes

Honours

Professor Paul Fournier

Research Associate Siobhan Reid

Graduate Diploma of Science

Mrs Inga Carr

Graduate Diploma of Science (Exercise and Rehabilitation)

Winthrop Professor Tim Ackland

Mrs Kerry Smith

Graduate Diploma of Sport and Recreation Management

Assistant Professor James Dimmock

Graduate Diploma of Education

Mr Martin Anderson

Dr Peter Whipp

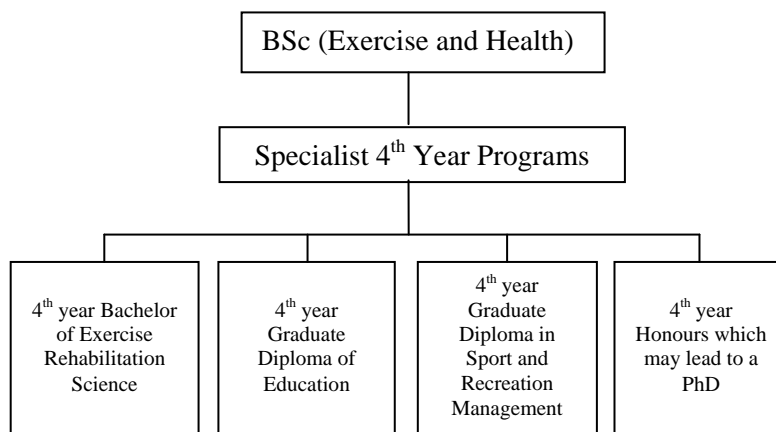
Masters Program

Assistant Professor Jacqueline Alderson

INTRODUCTION

The School of Sport Science, Exercise and Health at The University of Western Australia is a large teaching and research school on the UWA campus of over 18,000 students and is proud of its national and international reputation.

Located within the Faculty of Life and Physical Sciences, students completing a degree in the Bachelor of Science (Exercise and Health) must complete 144 points over a three year full-time or six year part-time enrolment. Students who wish to teach physical and health education or work in sport science are advised to complete the BSc (Exercise and Health) degree. At the completion of the degree, students can progress to one of the 4th year programs outlined below:



In 2011 the School will be introducing a new Graduate Diploma program in Occupational Health and Safety.

Bachelor of Science (Exercise and Health)

In this 3 year degree, expertise in sport and health science are combined with communication skills and practicum experiences to produce a well rounded graduate. The mix of core and elective units allows students to gain specific knowledge and skills in sport science, school teaching, health promotion or recreation management. This streaming prepares students for careers working with elite athletes in teams such as the Dockers, Eagles, Glory, Western Warriors, Wildcats and Institutes of Sport, and the general public in the fitness and health industries. Further study allows students to specialise as exercise rehabilitation specialists, school physical and health education teachers or university researchers/academics.

Bachelor of Exercise Rehabilitation Science

This 4th year specialist degree offers students the opportunity to gain a greater depth of knowledge and application of the role of exercise in assessing and managing various pathological conditions. Focus is placed on the indications, contra-indications and application of exercise rehabilitation. The course provides a holistic understanding of the use of exercise as a modality for managing musculoskeletal, metabolic and cardiovascular disabilities. A key outcome of this program involves practicum experiences that satisfy requirements for accreditation with the Australian Association for Exercise and Sport Science.

Those students who wish to specialise in the field of exercise rehabilitation should follow the Rehabilitation/Health stream within the BSc (Exercise and Health) degree. A quota exists for this program. Application should be made by mid November in the year preceding entry into the specialist degree with a “conditional offer” being sent to students by the Faculty. Once exam results are finalised, students who meet the “conditional offer” requirements may then enrol in the specialist degree. The prerequisite level 3 units for entry to the Bachelor of Exercise Rehabilitation Science degree are: SSEH3301, SSEH3385, SSEH3389 and SSEH3390/SSEH3391. Students must attain a WAM of at least 60% in the third year of their BSc degree.

A Graduate Diploma in Science is also available in the area of Exercise Rehabilitation. This is a full-fee program in the Faculty of Life and Physical Sciences. Enquiries should be made to the School Senior Administrative Officer regarding this program.

Teaching

Graduates interested in a teaching career should complete a minor at Level 1 and Level 2 with units in a teaching area other than physical and health education, such as Human Biology during the BSc (Exercise and Health) degree. Students then undertake a Graduate Diploma of Education (one year full-time) upon completing the three year degree course. The Graduate Diploma of Education has a quota, and selection for this course is based primarily on undergraduate academic achievement. The compulsory level 3 units for entry to the Graduate Diploma of Education are: SSEH3301, and SSEH3337/3338. Units SSEH3346, SSEH3376, SSEH3385 and SSEH3390/3391 are highly recommended.

Community, Corporate & Clinical Health

Those students who are interested in the promotion of exercise as a means of improving health and quality of life in either the community, clinical or corporate settings (preventative exercise programs in industry, commercial or government sectors, hospitals or community recreation, exercise for special populations, health studios) may pursue the BSc (Exercise and Health) degree.

General Interest/Cognitive Studies

Those who are unsure of a specific career path, but are interested in the general area of exercise and health science may alternatively enrol in a general BSc degree. SSEH1101, SSEH1102 are core units for a major in Sport Science, Exercise and Health.

Graduates completing the general BSc degree will not satisfy the membership requirements of the Australian Association for Exercise and Sport Science (AAESS).

Seeking Help

There are several avenues open for those seeking assistance. Student Support Services are available to all students and they can assist if you are experiencing personal problems or having difficulty in coping with study. Trained and experienced staff conduct regular short courses on study techniques, essay writing and exam preparation. The Guild is also available to assist with housing, finance or other personal advice. Students experiencing difficulties, should seek assistance early. Life has a habit of throwing up many and varied problems – seek expert help early.

Student Support Services

Ph: 6488 2423

Disability Officer
Counsellors
Learning Skills Advisor
English Language Skills Advisor
Housing Financial Aid Officer

Website: <http://www.studentservices.uwa.edu.a>

Academic Counselling

Students seeking advice on the academic content of a unit or their performance within a unit, should approach the unit coordinator concerned. Students seeking information about courses and changing units should approach the relevant year adviser within the School. To make special arrangements such as overloads and deferred examinations, students should approach the Faculty of Life and Physical Sciences who will then contact the School. Contact the Academic Student Adviser in The Faculty of Life and Physical Sciences for approval to take leave during the semester, overloading and deferred examinations. Permission for absence from classes also rests with the Student Academic Adviser of the Faculty and must be submitted in writing. Remember, there is a deadline for withdrawal, beyond which a student is deemed to have failed the unit.

Leave of Absence Information

For all Leave of Absence requests you need to:

- Attend at Faculty of Life and Physical Science Office, 1st Floor, Physics Building; or
- Write to the Academic Student Adviser at Faculty of Life and Physical Sciences, UWA, M011 (Phone: 6488 3417) or
- email jane.emberson@uwa.edu.au

If you are competing at State or National level, you can apply for a period of approved absence to compete. To apply for leave you are required to provide a letter from the sporting organisation for whom you are competing, detailing the event that is taking place and the dates involved. This should be submitted to the Faculty Office as above. Approved leave means that unit co-ordinators will be advised that no penalty should be applied due to absence from compulsory labs and tutorials.

Academic Rules

The School of Sport Science, Exercise and Health operates under the General Rules and Statutes of The University of Western Australia as well as those of the Faculty of Life and Physical Sciences. These rules can be found in the Faculty of Life and Physical Sciences Handbook, which is available from the University Bookshop and may also be accessed on-line at:

<http://rules.handbooks.uwa.edu.au/rules>

Disabled Students

The University is committed to a policy of equal opportunity and no student will be disadvantaged because of a disability. The University employs a Disability Officer for students who may need special assistance and any student with a disability is urged to contact Student Support Services. Any temporary disability, precluding a student from attending or completing laboratory work, should be reported to the unit coordinator or year adviser.

Appeal Against Academic Assessment

*** The Informal Process**

Students dissatisfied with assessment in a component of the unit contributing to the final assessment (other than final examination) should seek, as soon as possible, informal feedback from:

Assessor (verbal)

If student is dissatisfied, he/she goes to:

Unit/Course Coordinator (verbal)

If a student is still dissatisfied, he/she may write, within ten University working days of notification of a result, seeking reassessment of work, to:

Head of School

If a student is still dissatisfied, he/she appeals formally through the processes outlined below.

Appeal Against Academic Assessment

***The Formal Process**

Full details of the formal appeals process can be found in the Interfaculty Handbook which is available at the following Website:

<http://www.publishing.uwa.edu.au/handbooks/interfaculty/welcome.html>

Enrolment Details

Students must check their enrolment carefully once they have enrolled on-line. If you are incorrectly enrolled, then you will need to rectify this on-line. If a unit comes up INVALID the Faculty will contact either you direct or the School regarding this matter. However, all students should check their enrolments by the end of Week 3 of semester to ensure all is correct. Any errors or omissions may create difficulties during the examination period and/or result in HECS fees for units not undertaken.

School - Specific Regulations

There are two special School of Sport Science, Exercise and Health regulations with which all students need to be familiar. These are:

STUDENTS PLEASE NOTE:

1. Units at Levels 1 and 2 units comprise of more than one component (see page 32 for details). Every component of a unit must be completed to pass that unit.
2. Attendance at all School laboratory classes is expected. If students do not attend laboratories, 5% of the final mark can be deducted for each lab missed. Please contact the unit co-ordinator as soon as possible to inform him/her of your absence and ascertain how to "make-up" the missed laboratory. Absence for medical reasons does not negate the work which is required; it merely provides a valid reason which enables missed classes to be made up. A medical certificate may be required by the lab co-ordinator.



BSc (EXERCISE AND HEALTH)

LEVEL 1 UNIT SELECTIONS

CORE UNITS

SSEH1101, SSEH1102, ANHB1101, ANHB1102

1. Students may begin, with permission, Level 2 units whilst undertaking or repeating Level 1 pre-requisite units.
2. MATH1050 is NOT required if you have passed TEE Applicable Maths, but should be taken in Semester 1 or Semester 2 of Level 1 if you have only passed TEE Discrete Maths.

Suggested support units for Level 1 students wishing to follow pathways outlined are listed below:

| Biomechanics, Motor Control & Development | Exercise Physiology & Biochemistry | Health Behaviour and Performance Psychology | Exercise Rehabilitation | Sport & Health Management* |
|--|---|--|--|---|
| SSEH1103 (HR) | SSEH1103 (HR) | SSEH1103 (HR) | SSEH1103 (HR) | SSEH1103 (HR) |
| MATH1040 (R) STAT1510 (R) STAT1530(R) | CHEM1102 (R) CHEM1103 (R) | PSYC1101(R) PSYC1102(R) | PHYS1131 (R) PHYS1141 (R) PHYS1142 (R) | MGMT1135 (R) MGMT1136 (R) |
| PHYS1131(R) PHYS1141 (R) PHYS1142 (R) | CHEM1105 (R) CHEM1106 (R) | ANTH1101 (R) ANTH1102 (R) | PSYC1101 (R) PSYC1102 (R) | ACCT1101(R) |
| | | MGMT 1135(R) | CHEM1102 (R) CHEM1103 (R) | ECON1101 (R) |

HR = Highly Recommended

R = Recommended

*Note: Only 12 points outside the Faculty are permitted.

BSc (EXERCISE AND HEALTH)

LEVEL 2 UNIT SELECTIONS

CORE UNITS

SSEH2240, SSEH2250, SSEH2260, SSEH2270, SSEH2290
Plus 18 points electives with at least 12 points in a single cognate area.

Suggested units for Level 2 students considering the following pathways are outlined below:

| Biomechanics, Motor Control & Development | Exercise Physiology & Biochemistry | Health Behaviour and Performance Psychology | Exercise Rehabilitation | Sport & Health Management* |
|--|---|--|------------------------------------|---|
| BIOP2201 (R) BIOP2202 (R) | PHYL2245 (R) PHYL2255 (R) PHYL2260 (R) | PSYC2XXX (R) | ANHB2213 (HR) | IREL2201 (R) |
| ANHB2213 (HR) ANHB2217 (R) | ANHB2213 (R) ANHB2214 (R) | | ANHB2216 (R) | HRMT2237 (R) |
| MATHS (R) | BIOC2201 (R) BIOC2202 (R) | | ANHM2217 (R) | MGMT2235 (R) MGMT2236 (R) MKTG2203 (R) |

HR = Highly Recommended

R = Recommended

*Note: Only 18 points of units outside the Faculty permitted.

BSc (EXERCISE AND HEALTH)

LEVEL 3 UNIT SELECTIONS

Students must complete 48 points of SSEH units at Level 3, with at least one Level 3 unit from each of two sub-discipline areas – biomechanics, exercise physiology, sport and exercise psychology, motor control and learning (see units listed in *italics* below).

CORE UNITS SSEH 3301, SSEH 3302, SSEH 3390/91

| Biomechanics, Motor Control & Learning | Exercise Physiology & Biochemistry | Health Behaviour and Performance Psychology | Exercise Rehabilitation | Sport & Health Management |
|---|---|--|------------------------------------|--|
| <i>SSEH3355 (HR)</i> <i>SSEH3356 (HR)</i> | <i>SSEH3365 (HR)</i> <i>SSEH3366 (HR)</i> | <i>SSEH3375 (HR)</i> <i>SSEH3376 (HR)</i> | SSEH3389 (HR)* SSEH3385 (HR)* | SSEH3377 (HR)† |
| <i>SSEH3345 (HR)</i> <i>SSEH3385 (HR)*</i> | | SSEH3339 (R) | | SSEH3376 (R) SSEH3339 (R) |
| Plus electives | Plus electives | Plus electives | Plus electives | Plus electives |

HR = Highly Recommended

R = Recommended

- NOTE:
1. * Compulsory for entry into Bachelor of Exercise Rehabilitation Science
 2. † Compulsory for entry into Graduate Diploma in Sport and Recreation Management
 3. SSEH3337 and SSEH3338 highly recommended for students who intend to apply for the Graduate Diploma in Education.

SPECIALIST 4TH YEAR PROGRAMS

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### **DIPLOMA OF EDUCATION**

Students completing the BSc (Exercise and Health) may then complete a fourth year in the Graduate School of Education. Students may apply directly to the Graduate School of Education for entry into this program.

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HONOURS

Students who hold a BSc (Exercise and Health) with a 65% WAM in their major area (Level 3 units) may be eligible to progress to an Honours research degree by completing a fourth year of study. Entry requirements regarding this program are outlined in the School Honours Handbook.

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### **GRADUATE DIPLOMA IN SPORT AND RECREATION MANAGEMENT**

Students who have a bachelor's degree with a major in Sport and Exercise Science from UWA with a 60% WAM and which includes specified units to a value of 18 points or equivalent as recognized by the Faculty of Life and Physical Sciences. Also eligible are students who have a bachelor's degree from a recognised tertiary institution plus a minimum of two years of full time, relevant industry experience (as determined by the Faculty of Life and Physical Sciences, on recommendation from the course coordinator or Head of School, SSEH).

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BACHELOR OF EXERCISE REHABILITATION SCIENCE

Students are permitted to graduate with a BSc (Exercise and Health) Degree and then enter a fourth year to complete the Bachelor of Exercise Rehabilitation Science Degree in which they may also graduate.

Pre-requisite: BSc (Exercise and Health) with 60% WAM at Level 3 and the following units at Level 3:

SSEH3301, SSEH3385, SSEH3389 and both
SSEH3390/SSEH3391

Unit Overview

Unit No Title

| | | |
|----------|--|------------|
| SSEH1101 | Human Movement 1 | 1 |
| SSEH1102 | Human Movement | 2 |
| SSEH1103 | Health and Fitness | 1 |
| SSEH1108 | Functional Anatomy Foundations for Podiatry (Podiatry Students Only) | 1 |
| SSEH2240 | Motor Learning and Control | 2 |
| SSEH2250 | Biomechanics | 1 |
| SSEH2260 | Exercise Physiology | 1 |
| SSEH2270 | Psychosocial Aspects of Exercise Science | 2 |
| SSEH2280 | Biomechanics (Podiatry Students Only) | 1 |
| SSEH2290 | Physical Activity and Health | 2 |
| SSEH2295 | Skilled Movement Instruction (PSB Academy Students Only) | |
| SSEH3301 | Exercise Prescription for Health and Fitness | 1 |
| SSEH3302 | Exercise Prescription for Special Populations & Circumstances..... | 2 |
| SSEH3304 | Sport and Spirituality | 2 |
| SSEH3337 | Practical Aspects of Human Movement Part 1..... | Sem 1 or 2 |
| SSEH3338 | Practical Aspects of Human Movement Part 2..... | Sem 1 or 2 |
| SSEH3339 | Community and Worksite Health Promotion | 2 |
| SSEH3345 | Lifespan Motor Development..... | 1 |
| SSEH3355 | Biomechanical Methods | 1 |
| SSEH3356 | Neuromuscular Biomechanics and Motor Control..... | 2 |
| SSEH3365 | Sport Physiology | 1 |
| SSEH3366 | Bioenergetics in Exercise, Nutrition and Energy Balance | 2 |
| SSEH3375 | Psychology of Sport | 1 |
| SSEH3376 | Coaching Psychology | 2 |
| SSEH3377 | Management in Sport, Health and Recreation..... | 2 |
| SSEH3385 | Motor Development and Dysfunction | 2 |
| SSEH3389 | Exercise Rehabilitation | 2 |
| SSEH3390 | Professional Practice Part 1 | Sem 1 or 2 |
| SSEH3391 | Professional Practice Part 2 | Sem 1 or 2 |

Please note that subjects listed may be subject to change without prior notice and that students are responsible for checking their enrolments.

Unit Components and Weighting

| | <i>Lectures Hours</i> | <i>Tutes/Labs Hours</i> | <i>Weight %</i> |
|---|---------------------------|-----------------------------|---------------------|
| SSEH1101 Human Movement 1 | | | |
| Semester 1 (6 points) | | | |
| Anatomical Basis of HM | 26 | 19 | 80 |
| HM Lab: Tennis | | 20 | 20 |
| SSEH1102 Human Movement | | | |
| Semester 2 (6 points) | | | |
| Applied Anatomy & Athletic Performance | 26 | 20 | 85 |
| HM Lab: Soccer | | 13 | 15 |
| SSEH1103 Health & Fitness | | | |
| Semester 1 (6 points) | | | |
| Personal Health & Fitness | 26 | | 60 |
| Aerobic & Anaerobic training: Concepts & Modalities | 13 | | 20 |
| Strength Training | | 19.5 | 20 |
| SSEH1108 Functional Anatomy Foundations for Podiatry (Podiatry Students) | | | |
| Semester 1 (6 points) | | | |
| Anatomical Basis of HM | 26 | 19 | 80 |
| Major assignment | | 10 | 20 |
| SSEH2240 Motor Learning and Control | | | |
| Semester 2 (6 points) | | | |
| Motor Control, Learning and Development | 26 | 12 | 85 |
| HM Lab. Life Saving/Water Polo | | 24 | 15 |
| SSEH2250 Biomechanics | | | |
| Semester 1 (6 points) | | | |
| Biomechanics | 39 | | 85 |
| HM Lab: Aquatic Familiarisation | | 19.5 | 15 |
| SSEH2260 Exercise Physiology | | | |
| Semester 1 (6 points) | | | |
| Exercise Physiology | 39 | 13 | 85 |
| HM Lab: Aerobics/Jump Rope/Pump/Body Combat | | 13 | 15 |

| | <i>Lectures</i> <i>Hours</i> | <i>Tutes/Labs</i> <i>Hours</i> | <i>Weight</i> <i>%</i> |
|---|---------------------------------|-----------------------------------|---------------------------|
| SSEH2270 Psychosocial Aspects of Exercise Science | | | |
| Semester 2 (<i>6 points</i>) | | | |
| Psychosocial Aspects of Exercise Science | 26 | 12 | 85 |
| HM Lab: Ballroom Dance/Contemporary Dance | | 13 | 15 |
| SSEH2280 Biomechanics (Podiatry Students) | | | |
| Semester 1 (<i>6 points</i>) | | | |
| Biomechanics | 39 | 13 | 85 |
| Gait Laboratory Series | | 13 | 15 |
| SSEH2290 Physical Activity and Health | | | |
| Semester 2 (<i>6 points</i>) | | | |
| Physical Activity and Health | 26 | 10 | 10 |
| SSEH2295 Skilled Movement Instruction | | | |
| PSB Academy Students Only | | | |
| SSEH3301 Exercise Prescription for Health and Fitness | | | |
| Semester 1 (<i>6 points</i>) | | | |
| Exercise Prescription for Health and Fitness | 26 | 13 | 100 |
| SSEH3302 Exercise Prescription for Special Populations | | | |
| Semester 2 (<i>6 points</i>) | | | |
| Advanced Physical Activity and Health | 26 | 13 | 100 |
| SSEH3304 Sport and Spirituality | | | |
| Semester 2 (<i>6 points</i>) | | | |
| Sport and Spirituality | 26 | 13 | 100 |

| | <i>Lectures Hours</i> | <i>Tutes/Labs Hours</i> | <i>Weight %</i> |
|---|---------------------------|-----------------------------|---------------------|
| SSEH3337/3338 Practical Aspects of Movement Parts 1 & 2** | | | |
| Semester 1 (<i>3 points each</i>) | | | |
| Microteaching | 26 | | 50 |
| Volleyball | 26 | | 50 |
| Semester 2 (<i>3 points each</i>) | | | |
| Choose any two of the following: | | | |
| Outdoor Education plus expedition | 2 | 26 | 50 |
| Netball/Basketball | | 26 | 50 |
| Aussie Rules/Touch | | 26 | 50 |
| **Students must complete Part 1 and Part 2 in successive semesters | | | |
| SSEH3339 Community and Worksite Health Promotion | | | |
| Semester 2 (<i>6 points</i>) | 39 | | 100 |
| SSEH3345 Lifespan Motor Development | | | |
| Semester 1 (<i>6 points</i>) | | | |
| Motor Skill Development | 26 | 12 | 100 |
| SSEH3355 Biomechanics | | | |
| Semester 1 (<i>6 points</i>) | | | |
| The Biomechanical Analysis of Movement in Sport, Exercise & Gait | 26 | 26 | 100 |
| SSEH3356 Neuromuscular Biomechanics & Motor Control | | | |
| Semester 2 (<i>6 points</i>) | | | |
| Neuromuscular Biomechanics for Performance, Pathology and Rehabilitation | 26 | 26 | 100 |
| SSEH3365 Sport Physiology | | | |
| Semester 1 (<i>6 points</i>) | | | |
| Sport Physiology and Training | 39 | | 100 |
| SSEH3366 Bioenergetics | | | |
| Semester 2 (<i>6 points</i>) | | | |
| Bioenergetics in Exercise and Nutrition | 39 | | 100 |

| | <i>Lectures Hours</i> | <i>Tutes/Labs Hours</i> | <i>Weight %</i> |
|--|---------------------------|-----------------------------|---------------------|
| SSEH3375 Psychology of Sport | | | |
| Semester (6 points) | | | |
| Psychology of Sport | 39 | | 60 |
| Project Work | | 50 | 40 |
| SSEH3376 Coaching Psychology | | | |
| Semester 2 (6 points) | | | |
| Coaching Psychology | 39 | | 100 |
| SSEH3377 Management in Sport, Health and Recreation | | | |
| Semester 2 (6 points each) | | | |
| Sport, Health and Recreation Management | 26 | 13 | 100 |
| SSEH3385 Motor Development and Dysfunction | | | |
| Semester 1 (6 points) | | | |
| Human Movement and Disability | 13 | 21 | 100 |
| SSEH3389 Exercise Rehabilitation | | | |
| Semester 2 (6 points) | | | |
| Exercise Rehabilitation for Injury | 26 | 13 | 100 |
| SSEH3390/3391 Professional Practice Parts 1 and 2# | | | |
| Semester 1 or 2 (3 points each) | | | |
| Professional practice and Practicum | 13 | 50 50 | 100 |

Students must complete Part 1 and 2 in successive semesters

Unit Descriptions – Level 1

SSEH1101 Human Movement 1 **Anatomical basis of human movement** *Semester 1 (6 points)*

The musculoskeletal system provides the 'machinery' for human movement. This unit introduces the names and functions of important skeletal features as well as the names, structure and actions of major muscle groups. Co-ordination of muscle actions is discussed to provide guiding principles for performing safe and effective stretching exercises and resistance training. The tennis practical laboratory is designed to reinforce theoretical concepts and introduce students to coaching principles. No equipment, or prior tennis experience necessary.

| <i>Unit Coordinator</i> | <i>Lectures</i> | <i>Lab/pracs</i> |
|--|-----------------------------|-----------------------------|
| Winthrop Professor T. Ackland ph: 6488 2668 email: tackland@cyllene.uwa.edu.au | Average 2 hours per week | Average 3 hours per week |

NB: Examining preserved human material is an integral and compulsory part of the practical work in this unit. An anatomy licence must be obtained if students are not studying ANHB1101 Human Biology concurrently. In addition students require a white laboratory coat.

SSEH1102 Human Movement **Applied anatomy and athletic performance** *Semester 2 (6 points)*

This unit examines the physical capacities of humans and how these affect athletic performance. Special attention is given to body shape, composition, proportions, strength, power, speed, flexibility and agility, as well as to sports techniques. Specific reference is made throughout the unit to assessment and modification of these capacities in order to improve sport performance. Laboratories are designed to reinforce theoretical concepts and give anthropometric measurement skills.

Advisable Prior Study: SSEH1101

| <i>Unit Coordinator</i> | <i>Lectures</i> | <i>Lab/pracs</i> |
|---|-----------------------------|-------------------------------|
| Assistant Professor G. Landers ph: 6488 2362 email: glanders@cyllene.uwa.edu.au | Average 2 hours per week | Average 2.5 hours per week |

SSEH1103 Health and Fitness*Semester 1 (6 points)*

This unit takes both theoretical and practical approaches to discuss issues related to personal health and fitness. An important part of the learning process is being able to personally experience, or 'learning by doing', the various training modalities in order to better understand the techniques and demands of each activity. Hence, there is a heavy emphasis on participation in the practical component and personal improvement within this unit.

| <i>Unit Coordinator</i> | <i>Lectures</i> | <i>Lab/pracs</i> |
|--|-----------------------------|-------------------------------|
| N. Benjanuvattra ph: 6488 2437 email: natbenj@cyllene.uwa.edu.au | Average 3 hours per week | Average 1.5 hours per week |

SSEH1108 Functional Anatomy Foundations for Podiatry**(Podiatry Students Only)***Semester 1 (6 points)*

The musculoskeletal system provides the 'machinery' for human movement. With particular emphasis on the lower limb, this unit introduces the names and functions of important skeletal features as well as the names, structure and actions of major muscle groups. Co-ordination of muscle actions is discussed to provide guiding principles for performing safe and effective exercises.

| <i>Unit Coordinator</i> | <i>Lectures</i> | <i>Lab/pracs</i> |
|--|-----------------------------|---|
| Winthrop Professor T. Ackland ph: 6488 2668 email: tackland@cyllene.uwa.edu.au | Average 2 hours per week | Average 3 hours per week plus group assignment research approx 10 hrs |

NB: Only students enrolled in the Bachelor of Podiatric Medicine are eligible to enroll in this unit. Examining preserved human material is an integral and compulsory part of the practical work in the unit. An anatomy license must be obtained via the unit coordinator. In addition students require a white laboratory coat.

Unit Descriptions – Level 2

SSEH2240 Motor Learning and Control

Semester 2 (6 points)

This unit explores the core concepts in the learning of skilled movement, along with the underlying control mechanisms and performance limitations in the human motor system. Motor learning and control concepts underpin all goal-directed human movement, from using a toothbrush to the most complex and skilled movements in sport. The application for the theoretical concepts in motor learning and control are emphasised within practical human movement settings such as sports coaching, physical education and rehabilitation.

Laboratories: a practical study of aspects of motor control, development and learning and a practical study and skill development in aquatic coaching/life saving

Advisable Prior Study: SSEH2250 Biomechanics

| <i>Unit Coordinator</i> | <i>Lectures</i> | <i>Lab/pracs</i> |
|--|------------------|----------------------------|
| Assistant Professor B Lay ph: 6488 8788 email: blay@cyllene.uwa.edu.au | 2 hours per week | Average 2.5 hours per week |

SSEH2250 Biomechanics

Biomechanics in sport and exercise

Semester 1 (6 points)

Biomechanics is the study of movement from a mechanical perspective. In this introductory unit, special focus is given to sport techniques (e.g. hitting, kicking, throwing), exercise (e.g. lifting principles), gait (e.g. walking and running) and activities that involve musculoskeletal stress. These are further enhanced via a basic practical swimming course which is included as part of this unit.

Laboratories: a practical study of applied biomechanics related to basic human motions and a practical study of applied biomechanics for learning to swim.

| <i>Unit Coordinator</i> | <i>Lectures/Tutorials</i> | <i>Lab/pracs</i> |
|--|---------------------------|----------------------|
| Assistant Professor J Alderson ph: 6488 5827 email: jalders@cyllene.uwa.edu.au | 3 hours per week | 1x1.5 hours per week |

SSEH2260 Exercise Physiology

Semester 1 (6 points)

This unit describes cardiopulmonary and fuel responses to exercise and examines the control systems which govern their responses.

Advisable Prior Study: Knowledge of fundamental principles of anatomy and physiology

| <i>Unit Coordinator</i> | <i>Lectures/Tutorials</i> | <i>Lab/pracs</i> |
|---|---------------------------|---|
| Associate Professor K Wallman ph: 6488 2304 email:kwallman@cyllene.uwa.edu.au | 3 hours per week | Labs: 2 hours per fortnight Pracs: 1 hr per week |

SSEH2270 Psychosocial Aspects of Exercise Science

Semester 2 (6 points)

This unit emphasises the psychological and social correlates of involvement in physical activity, exercise and sport. Topics include social influence and self-presentation, cohesion, leadership, aggression, spectator psychology and the social psychology of exercise and health.

| <i>Coordinator</i> | <i>Lectures/Tutorials</i> | <i>Tute/pracs</i> |
|--|---------------------------|--------------------------|
| Assistant Professor J. Dimmock ph: 6488 1384 email: dimmock@cyllene.uwa.edu.au | 3 hours per week | Pracs:1 hour per week |

SSEH2280 Biomechanics – Podiatry Students Only**Biomechanics in sport and exercise**

Semester 1 (6 points)

Biomechanics is the study of movement using the science of mechanics. It focuses on sport techniques, exercise (e.g. lifting principles), gait (e.g. walking and running) and activities that involve musculoskeletal stress (open and closed kinetic exercise). Mechanics is integrated with the analysis of sporting, rehabilitation, clinical and ergonomic movements from a biomechanical perspective. Biomechanics laboratories look at the mechanical principles from an applied perspective, while the practical laboratories involve developing gait analysis skills.

Laboratories: a practical study of applied biomechanics related to basic human motions and a practical study of applied biomechanics for learning to swim.

Incompatibility: SSEH2250 Biomechanics

| <i>Unit Coordinator</i> | <i>Lectures/Tutorials</i> | <i>Lab/pracs</i> |
|--|---------------------------|--------------------|
| Assistant Professor J Alderson ph: 6488 5827 email: jalders@cyllene.uwa.edu.au | 3 hours per week | 1x1 hours per week |

SSEH2290 Physical Activity and Health

Semester 2 (6 points)

Regular physical activity, even of moderate intensity, reduces the risk of diseases such as cardiovascular disease, type II diabetes, obesity, colon cancer and osteoporosis. It can ease stress, depression and anxiety. Although the health benefits are evident, people throughout the world do not meet recommended levels of activity. This unit looks at costs of inactivity, benefits and barriers to activity, how much activity we actually need, current levels of activity, settings for intervention and promotion strategies and initiatives.

Advisable Prior Study: SSEH1103

| <i>Coordinator</i> | <i>Lectures/Tutorials</i> | <i>Prac</i> |
|--|---------------------------|---|
| Assistant Professor R Braham ph: 6488 2365 email: rbraham@cyllene.uwa.edu.au | 2 hours per week | Lab: 2 hours per fortnight Prac: 1 hour per week |

SSEH2295 Skilled Movement Instruction**Available to PSB Academy Students Only**

Unit Descriptions – Level 3

SSEH3301 Exercise Prescription for Health and Fitness

Semester 1 (6 points)

This unit provides the necessary background in health and fitness for those students wishing to pursue future careers in corporate and community health and fitness, general exercise prescription and weight control. The course is oriented towards a healthy lifestyle (rather than athletic training and fitness) and concentrates on issues such as the disease challenges (particularly coronary heart disease) of modern living, health and fitness assessment, exercise programming, diet and weight control.

Advisable Prior Study: SSEH2260 Exercise Physiology or similar unit

| <i>Coordinator</i> | <i>Lectures</i> | <i>Labs</i> |
|--|------------------|---|
| Assistant Professor K Guelfi ph. 6488 2602 email: kguelfi@cyllene.uwa.edu.au | 2 hours per week | 1 hour per week plus fitness testing |

SSEH3302 Exercise Prescription for Special Populations

Semester 2 (6 points)

This unit provides students with an understanding of common medical conditions (such as cardiovascular disease, asthma, diabetes mellitus) and physiological processes (such as pregnancy and ageing) and the implications for exercise prescription, including benefits and risks associated with exercise for these special populations. A special emphasis is placed on those special populations where improperly prescribed exercise has the potential to be highly detrimental to health.

Advisable Prior Study: SSEH2260 or similar unit in Exercise Physiology.

| <i>Coordinator</i> | <i>Lectures</i> | <i>Labs</i> |
|---|------------------|-----------------|
| Professor Paul Fournier ph. 6488 1356 email: fournier@cyllene.uwa.edu.au | 2 hours per week | 1 hour per week |

SSEH3304 Sport and Spirituality*Semester 2 (6 points)*

This unit examines the links between sport and spirituality. From the ancient Olympics to the contemporary phenomena of sports chaplains, the connections between sport and religious rituals, beliefs, psychology, sociological issues, values and hero-making are studied. Whether sport has become a spirituality or form of religious expression (especially in Australia); and the implications for individuals, and communities will be investigated. Critical thinking and analysis are essential but no religious affiliation is necessary. Each year a wide variety of guest speakers contribute to the unit.

| <i>Coordinator</i> | <i>Lectures</i> | <i>Labs</i> |
|--|-----------------|--------------------------|
| Rev. Canon R Pengelley ph: 6488 2363 email:richardp@cyllene.uwa.edu.au | 2 hrs per week | 1 hour tutorial per week |

SSEH3337 Practical Aspects of Movement Part 1**SSEH3338 Practical Aspects of Movement Part 2****Practical Exercises in Human Movement***Semester 1 or 2 (3 points each)*

These units are taken over two successive semesters with parts 1 and 2 being completed to fulfill the requirements of the unit. Students can commence the unit in either semester 1 or semester 2. These units introduces students to a range of educational teaching models utilising a combination of sporting and recreational activities. These units must be completed by all students following the Physical and Health Education stream in the Bachelor of Science (Exercise and Health Science) degree who wish to proceed to a Graduate Diploma in Education.

| <i>Coordinator</i> | <i>Lectures</i> | <i>Prac</i> |
|---|------------------|--|
| Martin Anderson ph. 6488 3918 email: martina@cyllene.uwa.edu.au | 2 hours per week | Average 4 hours per week across semester |

NB: Students must complete both SSEH3337 and SSEH3338

SSEH3339 Community and Worksite Health Promotion

Semester 2 (6 points)

This unit examines population-based approaches to promoting physical activity. It covers the rationale for different health promotion strategies; effectiveness of interventions in communities and worksites aimed at various populations; and the process and politics 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/health promotion.

Advisable Prior Study: SSEH2290

| <i>Coordinator</i> | <i>Lectures</i> | <i>Other</i> |
|--|------------------|--------------|
| Assistant Professor R Braham ph. 6488 2365 email: rbraham@cyllene.uwa.edu.au | 3 hours per week | Project |

SSEH3345 Lifespan Motor Development

Semester 1 (6 points)

This unit takes a multidisciplinary approach to explore the development and change in movement skills across the lifespan. A number of populations are covered, including infants, children, adolescents, and the elderly. Topics related to the development and decline of specific movement skills (ie. locomotion, manipulation and fundamental movement skills) are covered, with the factors that facilitate or restrict movement across the lifespan discussed (eg. reflexes, motor overflow, body composition.).

| <i>Coordinator</i> | <i>Lectures</i> | <i>Labs & Project</i> |
|--|------------------|------------------------------------|
| Dr M Licari Ph: 64887282 Email: mlicari@cyllene.uwa.edu.au | 2 hours per week | 2 hours per fortnight plus project |

SSEH3355 Biomechanical Methods**The biomechanical analysis of movement in sport, physical activity and work place***Semester 1 (6 points)*

This advanced unit provides analysis techniques related to sport (sport biomechanics – e.g. back injuries in cricket bowling), physical activity (exercise biomechanics – e.g. landing skills), gait (clinical biomechanics – e.g. cerebral palsy movement analysis) and the workplace (ergonomics – lifting techniques). The theory and application of videography (standard digital) and high speed dynamometry (force platform) and opto-reflective motion analysis (Vicon) in the analysis of the above activities form the basis of the unit.

| <i>Coordinator</i> | <i>Lectures</i> | <i>Labs/Project</i> |
|--|------------------|---------------------|
| Assistant Professor J Alderson ph: 6488 5827 email: jalders@cyllene.uwa.edu.au | 2 hours per week | 2 hours per week |

SSEH3356 Neuromuscular Biomechanics and Motor Control**Neuromuscular biomechanics for performance and rehabilitation***Semester 2 (6 points)*

This unit examines the neuromuscular system from a biomechanical and motor control perspective. Topics range from muscle-tendon architecture and measurements of musculoskeletal loads, to brain control of movement and information processing. It also studies the biomechanical mechanisms and responses to training, rehabilitation, injury and disuse. Laboratory work examines the human neuromuscular system using musculoskeletal models, ultrasonography, dynamometry, electromyography and other sensory system assessment procedures.

Advisable prior study: SSEH1101, SSEH2240, SSEH2250, SSEH3345, SSEH3355 or equivalent engineering or biophysics units.

Incompatibility: SSEH3346 if completed prior 2009

| <i>Coordinator</i> | <i>Lectures/Labs</i> | <i>Labs/Project</i> |
|---|----------------------|--|
| Assistant Professor J Rubenson ph: 6488 2608 jonas@cyllene.uwa.edu.au | 2 hours per week | 1 hour per week including project work |

**SSEH3365 Sport Physiology
Sport physiology and training**
Semester 1 (6 points)

This unit covers the important physiological adaptations to regular exercise (training) and shows how they improve elite athletic performance. Methods of training for aerobic, anaerobic and strength/power are also dealt with, as are factors which can affect elite performance such as environment, nutrition, ergogenic aids and jet lag.

Advisable prior study: SSEH2260 or similar unit in exercise physiology

| <i>Coordinator</i> | <i>Lectures/Labs</i> | <i>Other</i> |
|--|----------------------|----------------------------|
| Winthrop Professor B. Dawson ph. 6488 2276 email: bdawson@cyllene.uwa.edu.au | 3 hours per week | Occasional lab experiences |

SSEH3366 Bioenergetics in Exercise, Nutrition and Energy Balance
Semester 2 (6 points)

This unit describes and explains the mechanisms whereby the different energy systems in the body are used during physical activity. Students also explore the mechanisms by which the utilisation of these energy systems is regulated and affected by exercise training. They are introduced to several aspects of nutrition including carbohydrate, fat and protein nutrition for athletes and students learn how the energy stores are replenished with or without food intake. Finally, the physiological mechanisms of energy balance and obesity are explained.

Advisable prior study: SSEH2260 or a unit in physiology or biochemistry

| <i>Coordinator</i> | <i>Lectures/Labs</i> | <i>Project Work</i> |
|--|----------------------|---------------------|
| Professor P Fournier ph: 6488 1356 email: fournier@cyllene.uwa.edu.au | 3 hours per week | 3 hours |

SSEH3375 Psychology of Sport*Semester 1 (6 points)*

This unit focuses on psychological factors affecting behaviour and performance in sport and exercise settings. The individual performer is the unit of analysis, but consideration is also given to group influences on individual behaviour and performance.

Advisable prior study: SSEH2270 Psychosocial Aspects of SSEH

Incompatibility: SSEH8475 Advanced Psychology of Sport

| <i>Coordinator</i> | <i>Lectures/Labs</i> | <i>Project Work</i> |
|--|----------------------|---------------------|
| Winthrop Professor J R Grove ph: 6488 2369 email: Bob.Grove@uwa.edu.au | 3 hours per week | Approx. 50 hours |

SSEH3376 Coaching Psychology*Semester 2 (6 points)*

This unit introduces students to the field of coaching and positive psychology. The focus is primarily on performance enhancement, and personal growth through the understanding and implementation of psychological principles in sport exercise and health settings. However, students can also explore applications to other performance areas such as school/education, music, dance, fitness and health industry, special populations and corporate settings.

| <i>Coordinator</i> | <i>Lectures/Labs</i> | <i>Assign/Project</i> |
|---|----------------------|-----------------------|
| Associate Professor S. Gordon ph: 6488 2375 email: sandy.gordon@uwa.edu.au | 3 hours per week | |

SSEH3377 Management in Sport, Health and Recreation*Semester 2 (6 points)*

This unit introduces students to management issues in sport, health and recreation. Students are introduced to general management practices that are applicable to sport and exercise businesses. They are also introduced to practices that are uniquely associated with the management of sport or exercise organisations. The unit encourages students to think strategically about the development and management of sport/exercise businesses.

| <i>Coordinator</i> | <i>Lectures/Labs</i> | <i>Tutes</i> |
|---|----------------------|-----------------|
| Assistant Professor J Dimmock ph: 6488 1384 email: dimmock@cyllene.uwa.edu.au | 2 hours per week | 1 hour per week |

SSEH3385 Motor Development and Dysfunction*Semester 2 (6 points)*

This unit introduces students to different types of movement dysfunction that can impact individuals across various stages of the lifespan, with the underlying causes, impact on motor functioning and intervention options explored. While teaching in the Unigym Program, students will learn how to work with a child with movement difficulties.

| <i>Coordinator</i> | <i>Lectures/Labs</i> | <i>Practicum</i> |
|---|----------------------|--------------------|
| Dr M Licari ph. 6488 7282 email: mlicari@cyllene.uwa.edu.au | 1 hour per week | 1.5 hours per week |

SSEH3387 Human Performance in Industry**Ergonomics and occupational biomechanics in industry****Available to PSB Academy Students Only**

SSEH3389 Exercise Rehabilitation**Exercise rehabilitation for injury***Semester 2 (6 points)*

This unit provides a sound knowledge of causative mechanisms of sporting injuries and those commonly encountered in industry. Prevention and treatment of acute overuse injuries are discussed in detail. The ability to prepare and implement comprehensive preventative and rehabilitation programmes for common injuries is a major outcome of the unit. This unit should be of benefit when managing injuries at any level including injuries in adolescents, elite athletes and occupational workplaces.

Advisable prior study: A human anatomy unit

| <i>Coordinator</i> | <i>Lectures</i> | <i>Labs</i> |
|--|------------------|---------------|
| Assistant Professor R Braham ph: 6488 2365 email: rbraham@cyllene.uwa.edu.au | 2 hours per week | 1 hr per week |

SSEH3390/91 Professional Practice Part 1**SSEH3390/91 Professional Practice Part 2***Semester 1 or 2 (3 points each)*

This unit is taken over two semesters and parts 1 and 2 must be completed to fulfil the requirements of this unit. Students can commence the unit in either semester 1 or semester 2. The unit provides a theoretical and practical basis for students to develop and apply their knowledge and skills in the workplace. Generic skills and competencies necessary for gaining employment and managing the transition from student to employee status are developed.

Co-requisites: SSEH3390 and SSEH3391 must be completed to pass the unit.

| <i>Coordinator</i> | <i>Lectures</i> | <i>Practicum/Workshops</i> |
|---|---------------------------------|--|
| Mrs K Smith ph: 6488 2474 email: ksmith@cyllene.uwa.edu.au | 1 hour per week in 1st semester | <i>Practicum:</i> 50 hours industry <i>Workshop:</i> mock interview |

Notes: (1) Students undertaking the Bachelor of Science (Exercise and Health) are required to enroll in SSEH3390/SSEH3391 Professional Practice Part 1/Part 2.

Laboratories: Evaluation

Method of Evaluation

The assessment of Sports Science, Exercise and Health laboratory classes follows a general format.

(i) Physical Performance (20% to 50%)

Generally, a progressive method of evaluation will be used in preference to a single examination. In some units final examinations (including standardised tests) may be employed as part of the assessment.

(ii) Written test and/or manual (50% to 80%)

The nature of the written test applied to different units may vary. However, in general terms, such papers will examine the theoretical basis of the particular activity, and strategies and laws where applicable.

Some units require the compilation of a manual as specified by the course lecturer. Where possible, these courses are linked to Level 1 accreditation in the National Coaching Accreditation Scheme.

Laboratories: Attendance

To be assessed in any School unit incorporating laboratories, attendance is mandatory. 5% off final exam mark can be deducted for each laboratory/practice class missed. Where classes are missed for any reason, (including sickness and injury), the time lost can be made up in one of several ways at the discretion of the unit coordinator:

- additional assignment work on the materials missed;
- attendance at repeat classes where available;
- attendance at club training sessions by arrangement;
- meeting with lecturer to discuss ways to make up missed material;

Classes missed for medical reasons do not excuse students from meeting laboratory requirements. Students who are constantly late will be considered absent; e.g., two late attendances of greater than 15 minutes equals one absence. Absentees are to present a written explanation within one week of occurrence or produce a medical certificate.

Dress Standards

Students should be appropriately dressed for the sport in which they are participating. Specific clothing requirements are explained at each class. Failure to adhere to these standards could mean that you will be deemed absent from class.

These include:

- Track suit
- Cotton T-shirt with short or long sleeves/polo shirt
- Competition style swimming costume
- Shoes with non-marking soles for indoor wear
- Mouthguards are recommended for ball and contact sports

It is preferred that males do not wear singlet tops and it is recommended that a hat, sun block and sun glasses be worn where appropriate.

Shoes used for indoor laboratories (non-marking shoes only permitted) should be kept for that purpose alone so as to avoid damage to floor surfaces by sand and other abrasive substances on the soles.

For safety purposes footwear must be worn at all times in University buildings.

Laboratory Dress Standards

All students must wear clean white laboratory coats in anatomy and physiology laboratories. Students not wearing a white coat will be prevented from taking part in these laboratories. Other equipment may be necessary upon the instructor's request. For safety purposes students are required to wear fully covered shoes in all laboratories.

General Standards

Students in Sports Science, Exercise and Health are training to be professionals and should dress accordingly. Bare feet are not permitted in University buildings and thongs are discouraged.

Bicycles are to be parked outside the building in the racks provided. It is recommended that a heavy duty steel D lock be used to secure bicycles. (These are available at the Guild Shop.)

Bachelor of Science (Honours) 5011H

SSEH7700 B.Sc. Hons. (Exercise & Health)

Entry Requirements

Students with a 65% or above grade point average (GPA) at Level 3 will be offered the opportunity to complete an Honours Degree. Candidates must arrange a thesis supervisor and submit an **End-on-Honours Application Form** (available from the front office) to the Head of School by the specified date set by the Faculty of Life and Physical Sciences (usually mid November of the year prior to honours). Only those students who have gained the 65% GPA and have secured a thesis supervisor will be granted authority to enrol in the Honours program by the Faculty.

Honours is offered as a full-time program. Students wishing to complete Honours on a part-time basis must seek special approval from the Head of School and the Dean. Mid-year enrolments are also offered in the program but it should be noted that core units are only offered in Semester 1.

Students enrolled in the Honours research degree must successfully complete core the units SSEH7602 Research Methods and SSEH7603 Data Analysis and one other unit in the cognate area of the proposed thesis, or equivalent units as approved by the Head of School.

Considering further study?

For details regarding Honours, Bachelor of Exercise Rehabilitation and Graduate studies please consult the School of Sport Science, Exercise and Health school handbooks available on the web:

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

or contact the Senior Administrative Officer on

+61 8 6488 2360 or ssehmain@uwa.edu.au

