School of Sport Science, Exercise and Health

Honours Course (BH004)

Information booklet

2016
1. Introduction to Honours program of the School of Sport Science, Exercise and Health 2
2. Honours course structure (48 points) 3
3. Entry requirements 3
4. SSEH Honours Scholarships 4
5. Timeframe for 2015 5
6. Honours thesis supervision 5
7. Academic staff in School’s research areas 5
8. Research proposal guidelines 6
9. Proposal presentation to the Higher Degrees Committee 7
10. Honours Thesis format 7
11. Honours Colloquia format 9
12. Honours assessment overview 10
13. Ethical Scholarship, Academic Literacy and Academic Misconduct 10
14. Appeals Against Academic Assessment 11
15. Charter of student rights and responsibilities 11
16. Thesis presentation 11
17. Unit descriptions 12
18. Ownership of Data policy document 15
19. Student fact file 15

**FORMS**

HONOURS RESEARCH DATA RELEASE DOCUMENT 17
HONOURS BUDGET FORM 18
RESEARCH SUPERVISION AGREEMENT 19

All Honours students are required to complete the UWA Online Health and Safety Induction and also specific Lab inductions (to be organised by your supervisors) before commencing any tasks or activities.

The online health and safety induction unit is located within the UWA Learning Management System (LMS). Please follow this link and complete the online quiz. You can then obtain your certificate of completion which needs to be handed in to Inga Carr, as evidence of completion.

1. Introduction to Honours program of the School of Sport Science, Exercise and Health

The Honours research degree at the School of Sport Science, Exercise and Health is a prestigious one-year, research-based extension of your undergraduate degree that is available only to students who demonstrate academic excellence. During your Honours year, you will be required to complete four units and to spend most of your time on your research work and thesis. Irrespective of whether you are interested in undertaking a career in research, our Honours research programme will allow you to develop a broad range of generic skills highly valued in the workforce, such as problem-solving and organisational skills, initiative, advanced computer skills and capacity to work independently and in a team. In this respect, the Honours degree is of great value for your career prospects as it distinguishes you from regular BSc graduates who would not have had the same opportunity for an advanced learning experience.

If you are interested in pursuing an Honours research degree, it is important that you determine the general area that you wish to study, and discuss potential research projects with staff in that area. It is important to stress that you are not required to define your own research project as most Honours projects are normally part of the supervisor’s ongoing research. The School offers several research streams: Biomechanics, Motor Control and Learning, Exercise Physiology and Biochemistry, Health Behaviour and Performance Psychology, Health and Physical Education and Exercise Rehabilitation/Occupational Safety and Health. In order to help you to find a project that suits you, we have compiled a list of some of the Honours research projects on offer for 2016 (please see SSEH reception for a copy of the booklet).

If you wish to pursue this degree, you must initiate discussions with members of staff as soon as possible as limits on the number of available supervisors in a given year may prevent some eligible students from gaining entry. Once you have secured a potential supervisor, you will need to apply online through Student Connect. If you are successful, a formal invitation will be emailed to you in January 2016 by the Faculty.

It is important to note that in order to enrol in the Honours research degree you must reach a weighted average mark of at least 65% across your third year units. For this reason, you should aim to performing exceptionally well in your final exams.

If you have any queries about the Honours program, please feel free to contact our Honours Coordinator, Prof Paul Fournier (08) 6488 1356 or paul.fournier@uwa.edu.au or Inga Carr (08) 6488 2360 or inga.carr@uwa.edu.au.

Honours Outcomes

Honours students gain a greater depth of knowledge in areas of specialisation, while also developing research skills. Students learn:

- to plan, administer testing, analyse and present data both in written and oral formats;
- to prepare a written manuscript for peer-reviewed publication;
- independent time and work management skills and the ability to develop leadership potential;
- advanced computer skills;
- problem-solving and organisational skills.
2. Honours course structure (48 points)

<table>
<thead>
<tr>
<th>UNIT CODE</th>
<th>TOTAL POINTS</th>
<th>SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSEH4711 Honours dissertation Part 1</td>
<td>6</td>
<td>Sem 1 or Sem 2</td>
</tr>
<tr>
<td>SSEH4712 Honours dissertation Part 2</td>
<td>6</td>
<td>Sem 1 or Sem 2</td>
</tr>
<tr>
<td>SSEH4713 Honours dissertation Part 3</td>
<td>6</td>
<td>Sem 1 or Sem 2</td>
</tr>
<tr>
<td>SSEH4714 Honours dissertation Part 4</td>
<td>6</td>
<td>Sem 1 or Sem 2</td>
</tr>
</tbody>
</table>

CORE UNITS

<table>
<thead>
<tr>
<th>UNIT CODE</th>
<th>TOTAL POINTS</th>
<th>SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSEH4602 Research Methods</td>
<td>6</td>
<td>Semester 1</td>
</tr>
<tr>
<td>SSEH4603 Data Analysis</td>
<td>6</td>
<td>Semester 1</td>
</tr>
<tr>
<td>SCIE4481 Good, bogus and corrupted science</td>
<td>6</td>
<td>Semester 2</td>
</tr>
</tbody>
</table>

SELECT ONE UNIT FROM THE LIST BELOW:

<table>
<thead>
<tr>
<th>UNIT CODE</th>
<th>TOTAL POINTS</th>
<th>SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSEH4633 Advanced Biomechanical Methods</td>
<td>6</td>
<td>Semester 1</td>
</tr>
<tr>
<td>SSEH4644 Advanced Exercise Physiology</td>
<td>6</td>
<td>Semester 1</td>
</tr>
<tr>
<td>SSEH4654 Advanced Concepts in Motor Control &amp; Learning</td>
<td>6</td>
<td>Semester 2</td>
</tr>
<tr>
<td>SSEH4664 Exercise and Health Psychology</td>
<td>6</td>
<td>Semester 2</td>
</tr>
</tbody>
</table>

3. Entry requirements

Students with a 65% or above weighted average mark (WAM) at Level 3 will be offered the opportunity to complete an Honours degree. Candidates must arrange a thesis supervisor and submit an on-line application through Student Connect to the Faculty of Science (usually mid-November of the year prior to Honours). Only those students who have gained the 65% WAM and 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 2 core units and 2 elective units are only offered in Semester 1.

Students enrolled in the Honours research degree must successfully complete 3 core units SSEH4602 Research Methods, SSEH4603 Data Analysis and SCIE4481 Good, Bogus and Corrupted science plus one other unit in the cognate area of the proposed thesis, or equivalent units as approved by the Head of School.

Submission of a thesis based on a research topic in a cognate area is a major component of the Honours degree. A candidate must present a research proposal on a topic approved by the supervisor(s) to the School’s Higher Degree’s Committee, academic staff and postgraduate student body by the commencement of Week 7 of Semester 1. For mid-year enrolments the proposal must be submitted by Week 7 of Semester 2. This proposal will be prepared under the guidance of the candidate’s nominated supervisor(s). All Honours students must present a proposal to the Higher Degree Committee prior to commencement of any data collection.
4. SSEH Honours Scholarships

The Frank Pyke Memorial Scholarship

Stipend: $5000

Purpose: To assist an honours student (who has demonstrated academic excellence and other outstanding achievements, abilities, leadership or community involvement in sport or exercise related activities) to complete a Bachelor of Science (Honours) degree course in SSEH at UWA.

Applications: UWA Scholarships office calls for applications in ~April each year.

The REDiMED Scholarship

Stipend: $5000

Purpose: To encourage and assist a meritorious student to undertake honours in the School of Sport Science, Exercise and Health with a thesis related to exercise rehabilitation or workplace health.

Applications: UWA Scholarships office calls for applications in ~April each year.

ENTRY FOR OVERSEAS STUDENTS

Potential students who do not hold Australian or New Zealand citizenship or Australian permanent residency permits should address their initial enquiries to the International Students Officer (Postgraduate), International Centre, at The University of Western Australia. Information regarding application procedures and entry requirements are available from the International Centre:

Phone: +61 8  6488 2477
Fax: +61 8  6488 4071
Email: http://www.ask.uwa.edu.au/app/ask/
Website: http://www.studyat.uwa.edu.au/courses-and-careers/honours
5. **Timeframe for 2016**

<table>
<thead>
<tr>
<th></th>
<th>MID YEAR HONOURS 2015</th>
<th>2016 HONOURS</th>
<th>MID YEAR HONOURS 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proposal of research projects due by end of 7th week of S1 2016</td>
<td>N/A</td>
<td>By 8 April 2016</td>
<td>By 9 September 2016</td>
</tr>
<tr>
<td>Research proposal presentations due by</td>
<td>N/A</td>
<td>15 April 2016</td>
<td>16 September 2016</td>
</tr>
<tr>
<td>Honours thesis submission</td>
<td>6 June 2016</td>
<td>31 October 2016</td>
<td>TBA</td>
</tr>
<tr>
<td>Thesis presentations</td>
<td>16 June 2016</td>
<td>10 November 2016</td>
<td>TBA</td>
</tr>
<tr>
<td>Marked thesis due back to office</td>
<td>20 June 2016</td>
<td>14 November 2014</td>
<td>TBA</td>
</tr>
<tr>
<td>Comments and examiners remarks due to students</td>
<td>1 July 2016</td>
<td>25 November 2016</td>
<td>TBA</td>
</tr>
<tr>
<td>Corrected thesis (hardcopy and an electronic copy) due to office</td>
<td>26 August 2016</td>
<td>28 February 2017</td>
<td>TBA</td>
</tr>
</tbody>
</table>

6. **Honours thesis supervision**

Students planning to undertake the Honours degree should, in the first instance, approach an academic staff member with regard to supervision. Academic staff are listed here under the discipline areas offered by the School. Details are also available on the School’s internet homepage:

[http://www.sseh.uwa.edu.au/about/staff](http://www.sseh.uwa.edu.au/about/staff)

7. **Academic staff in School’s research areas**

<table>
<thead>
<tr>
<th>Biomechanics, Motor Control and Learning</th>
<th>Exercise Physiology and Biochemistry</th>
<th>Health Behaviour and Performance Psychology</th>
<th>Physical and Health Education</th>
<th>Exercise Rehabilitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winthrop Professor Tim Ackland</td>
<td>Winthrop Professor Brian Dawson</td>
<td>Associate Professor Rebecca Braham</td>
<td>Mr Martin Anderson</td>
<td>Winthrop Professor Tim Ackland</td>
</tr>
<tr>
<td>Associate Professor Jacqueline Alderson</td>
<td>Professor Paul Fournier</td>
<td>Professor Fiona Bull</td>
<td>Associate Professor Peter Whipp</td>
<td>Mrs Kerry Smith</td>
</tr>
<tr>
<td>Associate Lecturer Dr Nat Benjanuvatra</td>
<td>Winthrop Professor Danny Green</td>
<td>Associate Professor James Dimmock</td>
<td></td>
<td>Assistant Professor Jay Ebert</td>
</tr>
<tr>
<td>Associate Professor Brendon Lay</td>
<td>Associate Professor Kym Guelfi</td>
<td>Associate Professor Michael Rosenberg</td>
<td></td>
<td>Assistant Professor Bonnie Furzer</td>
</tr>
</tbody>
</table>
8. Research proposal guidelines

Having selected a supervisor, the next step is the preparation of the proposal. A proposal is:

1. a statement of the problem to be examined,
2. the hypotheses to be tested, and
3. the methods considered most appropriate for its examination

- Honours research proposals must be submitted to the School’s Higher Degrees Committee for approval by week 7 of semester 1 (or week 7 of Semester 2 for students commencing mid-year). The candidate arranges a time and date with the Senior Administrative Officer to present to this Committee.

- The full proposal, (a maximum of 15 pages), in an electronic format should be forwarded to the Senior Administrative Officer one week prior to the presentation.

- The proposal should be a brief synopsis of the research plan as per the guidelines located at the website below.

- All proposals must be approved in the first instance by the candidate's supervisor(s).

- A Thesis Budget Proposal form and timeframe must also be completed for each proposal (available on the School’s Web).

- Sample thesis proposals prepared by other students can be viewed at the Senior Administrative Officer’s office.

In preparing the proposal, consideration must be given to the University rules relating to Guidelines for Preparing Research Proposals for Candidates in Research Higher Degrees and conform to Ethical Applications and Approvals.

http://www.postgraduate.uwa.edu.au/staff/policies/preparing

NB: An Ethics application can only be submitted once the research proposal is approved at a Higher Degrees Committee meeting.
Ethics Application

Any research conducted using human participants or animals must have ethics approval. Full details of how to apply, what documentation you must complete and to whom it must be submitted is located at the following website:

http://www.research.uwa.edu.au/staff/human-research/approvals

9. Proposal presentation to the Higher Degrees Committee

Proposal Presentation

Honours students are required to limit their presentation as follows:

*Presentation with power point slides 10 minutes*

*Question times 10 minutes*

In the written proposal, a student will have provided considerably more background information and methodological detail than it would be possible to cover in the allotted speaking time. There is no need to repeat this information.

The Committee is primarily interested in hearing what the problem is, why it is worth studying, and an abridged methodology. It is suggested that the student spends 50% of the speaking time explaining the problem and its relevance, and the remainder on the key aspects of methodology and the outcomes of the research.

Technical and Administrative Staff Support

The School needs to estimate the amount of technical and administrative input that is required from staff. You will need to estimate the time required to carry out the required tasks for your project.

10. Honours thesis format

1. Preliminary Material

- Title page
- Executive Summary (1 to 2 pages)
- Acknowledgements
- Table of Contents
- List of Tables
- List of Figures
- List of Abbreviations
2. Extended Literature Review (<5000 words excluding reference list)
   - Literature Review
   - Full Reference List

3. Preliminary Work and/or Development and Validation of Methods (optional)
   This section should be included in the body of the thesis if it constitutes an important component of the Honours research work.

4. The Paper
   The paper format should follow that of the scientific journal relevant to the research topic, but with the following restrictions overriding the journal’s instruction to authors:

   The paper should adopt the following conventional format:
   - Abstract
   - Introduction
   - Methods
   - Results
   - Discussion (or combined Results and Discussion)
   - Conclusion
   - References

   - Each subheading, table and figure should be numbered relative to its position within the thesis (e.g. “2.1 Introduction” rather than “Introduction”).
   - Use UK, USA or Australian spelling as per Instructions to Authors.
   - Manuscript length should be that of a full length paper and not a short communication

Format and General Restrictions

a) Title Page - As per instructions to authors, but must include the name of the journal of publication and internet address of the journal’s instructions to authors.

b) Abstract - As per instructions to authors.

c) Introduction - Must be brief (<3 pages) and clearly state the research aims and hypotheses.

d) Materials and Methods - Must provide enough details and cited material for the reader to repeat the experiments.

e) Results or Results/Discussion

   The Result and Discussion sections can be combined if allowed by the journal
   Figures and Tables should be included in this section and not at the end of the manuscript as normally recommended by some journals.
   Figure legends should be added to corresponding figures rather than as a list.
f) Discussion - Limitations of the study should be highlighted as well as proposed means to address those limitations.

“Supervisors, academic staff, postdoctoral scientists, and postgraduate students are not allowed to read or provide feedback (written or verbal) on the Discussion section of the Honours thesis (either in its abbreviated journal article form or its longer thesis form). This section of the thesis should be entirely the students’ own work. However, supervisors may provide input, in general terms, regarding the appropriate structure of a discussion section.”

g) Conclusion and Future Research Directions - Comments on future research directions should be provided even if this is generally discouraged by most journals.

Supervisors are not to proofread the Conclusion and Future Research Directions section of the thesis.

h) Acknowledgements - As per instructions to authors

i) References

• As per instructions to authors, but must provide the title of each cited article.
• Preferable, but not compulsory, for the reference styles of the paper and literature review to be identical.
• Citations in the text can refer to the names of the authors (e.g. Smith, 2009) rather than using a reference numbering system.

5. Appendices (optional)

• Human or Animal Ethics Approval Form (optional)
• Additional or expanded Methodologies (optional)
• Additional results (optional)
• Additional or raw data if relevant (optional)

11. Honours Colloquia format

- Presentation: 10 minutes
- Questions: 7 minutes
- Changeover: 3 minutes

20 minutes per student

The following criteria are considered in evaluating oral presentations.

- Clear, concise oral delivery
- Pleasant and professional image
- Quality of:
  - Introduction
  - Justification of goals
  - Experimental design
  - Data analysis and interpretation of results
  - Conclusion
- Appropriate use of media aids (overheads, powerpoint....)
- Response to questions
- Ability to keep to time
- Comments (optional)

### 12. Honours assessment overview

**Course assessment**
- 4 units 50 %
- Thesis (including oral presentation) 50%

**Assessment breakdown for the thesis component**
- Thesis Examiner 37.5%
- Supervisor 5%
- Presentation 7.5%

### 13. Ethical Scholarship, Academic Literacy and Academic Misconduct

Ethical scholarship is the pursuit of scholarly enquiry marked by honesty and integrity. Academic Literacy is the capacity to undertake study and research, and to communicate findings and knowledge, in a manner appropriate to the particular disciplinary conventions and scholarly standards expected at university level. Academic misconduct is any activity or practice engaged in by a student that breaches explicit guidelines relating to the production of work for assessment, in a manner that compromises or defeats the purpose of that assessment. Students must not engage in academic misconduct. Any such activity undermines an ethos of ethical scholarship. Academic misconduct includes, but is not limited to cheating, or attempting to cheat, through:
- Collusion
- Inappropriate collaboration
- Plagiarism
- Misrepresenting or fabricating data or results or other assessable work
- Inappropriate electronic data sourcing/collection
- Breaching rules specified for the conduct of examinations in a way that may compromise or defeat the purposes of assessment.

Penalties for academic misconduct vary according to seriousness of the case, and may include the requirement to do further work or repeat work; deduction of marks; the award of zero marks for the assessment; failure of one or more units; suspension from a course of study; exclusion from the University, non-conferral of a degree, diploma or other award to which the student would otherwise have been entitled.

Refer to the Ethical Scholarship, Academic Literacy and Academic Misconduct policy.
14. Appeals Against Academic Assessment

If students feel they have been unfairly assessed, they have the right to appeal their mark by submitting an Appeal Against Academic Assessment form to the Head of School and Faculty Office. The form must be submitted within twenty working days of the release of the formal result. It is recommended that students contact the Guild Education Officers to aid them in the appeals process.

They can be contacted on +61 8 6488 2295 or education@guild.uwa.edu.au. Full regulations governing appeals procedures are available from Academic Policy Services, available online at http://www.aps.uwa.edu.au/home/policies/appeals

15. Charter of student rights and responsibilities

This Charter of Student Rights and Responsibilities upholds the fundamental rights of students who undertake their education at the University of Western Australia. It recognises that excellence in teaching and learning requires students to be active participants in their educational experience. It upholds the ethos that in addition to the University's role of awarding formal academic qualifications to students, the University must strive to instil in all students independent scholarly learning, critical judgement, academic integrity and ethical sensitivity.

Please refer to the website the full charter of student rights and responsibilities, located at http://www.secretariat.uwa.edu.au/home/policies/charter

16. Thesis presentation

Thesis Presentation Specifications:

- A thesis must be printed one-side only on a white paper with a minimum 1.5 line spacing (Laser printing facilities are available within the School).
- The cover page must include the Author’s name, full title of thesis, full title of degree, School’s name, University’s name and year of presentation.
- The paper used should be international size A4 which is 297x210 mm. A 4cm margin is required for permanent binding. Other margins should be not less than 2cm.
- Photographic plates or other illustration on non-standard paper must be securely mounted so as to conform with the above margin requirements.
- Coloured pages can be done at Uniprint. Students need to request a form at the reception to take to Uniprint to have enough copies made for the number of thesis they need to submit.

Examination and Binding Guidelines:

Each candidate will present one temporary bound copy of the completed Honours thesis for marking to the School Senior Administrative Officer by the due date unless an extension has been granted. Should a candidate fail to do so it is deemed the privilege of the School to withhold the final Honours grade.
Temporary binding:

Temporary binding can be done within the School with the help of the front desk staff. Please note that Honours thesis should be printed off and bounded by 3pm on the due date. After 3pm and before 5pm on the due date, candidates will be sent to Uniprint office for printing and binding purposes.

Permanent binding:

Once a thesis has been examined, students are required to amend the thesis in accordance with examiners’ comments. **Correction of the thesis must be completed and bounded by 28 February of the following year.** School covers cost of printing and binding of 3 copies, and keeps one for the School library. Once corrections are completed and approved by the supervisor(s), a “T” form should be obtained from the front office to take to the Reid Library for permanent binding of the completed thesis. At the time of submitting the thesis for permanent binding, a CD of the thesis should also be submitted to the Senior Administrative Officer. Students, who complete their thesis corrections after 24 February of the following year, will pay for the binding cost themselves.

### 17. Unit descriptions

**SSEH4602 RESEARCH METHODS**  
*Semester 1*

This unit gives an overview of the conceptual aspects of the research process as it functions in the field of human movement and assists in the development of a research proposal.  
Assessment: this comprises an end of semester examination (60%), lecture quizzes (25%) and an oral presentation (15%).

<table>
<thead>
<tr>
<th>Lecturer</th>
<th>Lectures</th>
<th>Labs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate Professor Michael Rosenberg</td>
<td>2 hours per week</td>
<td>1 hour per week</td>
</tr>
<tr>
<td>Phone: 6488 4654</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email: <a href="mailto:Michael.rosenberg@uwa.edu.au">Michael.rosenberg@uwa.edu.au</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SSEH4603 DATA ANALYSIS**  
*Semester 1*

This unit covers conceptual issues and practical skills unique to quantitative data analysis in the fields of sport science, exercise and health. The content includes spreadsheet and data file management; descriptive statistics; bivariate correlation procedures; multivariate correlation procedures; group comparisons using t-tests; one way and multifactor analysis of variance; and non-parametric statistics.  
Assessment: two interim tests (each worth 25%) and an end-of-semester examination (50%).

<table>
<thead>
<tr>
<th>Lecturer</th>
<th>Lectures</th>
<th>Labs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistant Professor Ben Jackson</td>
<td>1.5 hours per week</td>
<td>2 hour per week</td>
</tr>
<tr>
<td>Phone: 6488 4625</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email: <a href="mailto:ben.jackson@uwa.edu.au">ben.jackson@uwa.edu.au</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SCIE4481 GOOD, BOGUS AND CORRUPTED SCIENCE

Semester 2

This unit provides students with the knowledge and skills to distinguish genuine scientific findings from spurious ones and examines how bogus science is promoted and made so appealing. After exploring the various forms of scientific misconduct, this unit explores the psychosocial underpinnings of corrupted behaviours and examines how ideological, political, economic and other interests impose themselves on scientific objectivity and integrity, and identifies the potential problems posed by the commodification of academic research. It also examines why and how the industries and institutions supporting corrupted and bogus science are flourishing. Finally, this unit describes the strategies often adopted to undermine scientists and society's trust in their work, and provides practical means to uncover and counter bogus and corrupted science.

Unit is assessed with brief research essay, exam, oral presentation and attendance and participation in tutorials.

<table>
<thead>
<tr>
<th>Lecturer</th>
<th>Lectures</th>
<th>Labs/Tutorials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor Paul Fournier and A/Professor Peter Arthur Phone: 6488 1356 (6488 1750) Email: <a href="mailto:paul.fournier@uwa.edu.au">paul.fournier@uwa.edu.au</a>, <a href="mailto:peter.arthur@uwa.edu.au">peter.arthur@uwa.edu.au</a></td>
<td>2 hours per week</td>
<td>1 hour per week</td>
</tr>
</tbody>
</table>

SSEH4633 ADVANCED BIOMECHANICAL METHODS

Semester 1

This unit covers topics which include an introduction to research in sport, clinical and occupational biomechanics; computer modelling methods in motion analysis; creation of three-dimensional segments; creation of technical, anatomical and joint coordinate systems; force and electromyography measurement in motion analysis; methods to estimating joint loading; interpretation of three-dimensional movement data in normal walking and running; and interpretation of three-dimensional movement data in pathological movement patterns (osteoarthritis, cerebral palsy, amputee and neurological damage, recurrent hamstring injuries).

Assessment: theory examination and laboratory assignments. Advisable prior study: SSEH3355 Biomechanics

<table>
<thead>
<tr>
<th>Lecturer</th>
<th>Lectures</th>
<th>Labs/Tutorials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistant Professor Cyril Donnelly Phone: 6488 3919 Email: <a href="mailto:Cyril.donnelly@uwa.edu.au">Cyril.donnelly@uwa.edu.au</a></td>
<td>2 hours per week</td>
<td>3 hour per week</td>
</tr>
</tbody>
</table>
SSEH4644 ADVANCED EXERCISE PHYSIOLOGY  
Semester 1

Students cover current topics of interest in exercise physiology which are relevant to the athlete in particular, by a combination of 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 practised. Assessment: this comprises an oral examination, two assignments and a seminar presentation.

**Prerequisites:** enrolment in honours or postgraduate study in Sport Science, Exercise and Health and have completed at least two units in exercise physiology.

**Advisable prior study:** SSEH2260 Exercise Physiology and SSEH3365 Sport Physiology or equivalent

<table>
<thead>
<tr>
<th>Lecturer</th>
<th>Lectures</th>
<th>Labs/Tutorials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winthrop Professor Brian Dawson</td>
<td>3 hours per week plus practicum work</td>
<td>N/A</td>
</tr>
<tr>
<td>Phone: 6488 2276</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email: <a href="mailto:brian.dawson@uwa.edu.au">brian.dawson@uwa.edu.au</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

SSEH4654 ADVANCED CONCEPTS IN MOTOR CONTROL AND LEARNING  
Semester 2

This unit builds on undergraduate knowledge by exploring advanced concepts within the domain of motor control, motor learning and lifespan motor development. The unit encourages students to think critically about our current understanding of how the central nervous system (CNS) organises 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 the development of expertise. Assessment: This comprises student presentations (15 per cent); research project with written component (30 per cent) and oral component (15 per cent); and an examination (40 per cent).

**Prerequisites:** enrolment in honours, Bachelor of Exercise Rehabilitation Science or postgraduate study in Sport Science, Exercise and Health

**Advisable prior study:** SSEH2240 Motor Learning and Control, SSEH3345 Lifespan Motor Development, SSEH3385 Exercise Science and Dysfunction

<table>
<thead>
<tr>
<th>Lecturer</th>
<th>Lectures</th>
<th>Labs/Tutorials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate Professor Brendan Lay</td>
<td>2 hours per week plus project work</td>
<td>N/A</td>
</tr>
<tr>
<td>Phone 6488 8788</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email: <a href="mailto:Brendan.lay@uwa.edu.au">Brendan.lay@uwa.edu.au</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
This unit focuses on the psychological aspects of exercise and health behaviour. Particular emphasis is directed towards the psychology of 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.

Assessment: This comprises a group workshop (30 per cent), an individual paper (25 per cent), presentation (20 per cent), and health coaching practicum (25 per cent)

**Prerequisites:** enrolment in Honours, Bachelor of Exercise Rehabilitation Science or postgraduate study in Sport Science, Exercise and Health

<table>
<thead>
<tr>
<th>Lecturer</th>
<th>Lectures</th>
<th>Labs/Tutorials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor Sandy Gordon</td>
<td>2 hours per week plus project work</td>
<td>N/A</td>
</tr>
<tr>
<td>Phone: 6488 2375</td>
<td>Email: <a href="mailto:sandy.gordon@uwa.edu.au">sandy.gordon@uwa.edu.au</a></td>
<td></td>
</tr>
</tbody>
</table>

---

### 18. Ownership of Data policy document

The following is provided as a guide to establish ownership on research publications emanating from a thesis/dissertation.

- **Academic Staff Ownership** (in participation with granting body or as otherwise set out in the conditions of the grant)
  - Chief investigator on a grant overrides any existing ownership policies.
  - Student thesis/dissertation based on academic's line of research
  - Academic chooses thesis topic
  - Thesis/dissertation based on an idea and research direction chosen by the academic

- **Student Ownership**
  - Student chooses topic [academic provides supervision, direction and assistance]

*Students must complete the Consent Form at the end of this booklet and return a copy to the Supervisor for signing by the time of their proposal.*

---

### 19. Student fact file

The following information outlines the privileges within the School of Sport Science, Exercise and Health when enrolled as an Honours Student.

**COMPUTERS**

Some computers are available in the Honours/Masters student room. There are also facilities for students to bring in personal laptops. Students can also use the undergraduate computers when they are not in use for classes.
E-MAIL

All students have access to personal student e-mail accounts.

LIBRARIES

UWA has several libraries. Relevant journals and books are held in the Science Library. Inter-library loans are free for all students. There is a cost to students if a hard copy inter-library loan is required from overseas.

SCHOOL THESIS AND BOOK LIBRARY

This is located in the small meeting room. Items may be borrowed for a limited time and must be signed out at Reception.

PHOTOCOPYING

Honours students must use their student card to access the printer. Please see Inga Carr to have your student card activated on the copier located in the PESA area.

SWIMMING POOLS

Honours students may use the pools between 3-3.45 pm weekdays at no cost.

General information and important contact details are listed below. Details of University and School requirements in relation to the Honours degree program are contained within this booklet.

STUDENT SUPPORT SERVICES

http://www.studentservices.uwa.edu.au/

Phone: 6488 2423/2258     Fax: 6488 1119

- Disability Officer
- Counselling services
- Learning Skills Adviser
- English Language Skills Adviser
- Housing Financial Aid Officer

HELPFUL WEBSITES

The University of Western Australia  http://www.uwa.edu.au/
Faculty of Science  http://www.science.uwa.edu.au/
School of Sport Science, Exercise & Health  http://www.sseh.uwa.edu.au/
The International Centre for Students  http://www.international.uwa.edu.au/
# Research Supervision Agreement, 2016

This agreement is intended to clarify the responsibilities and rights of both the student and supervisor. The agreement should be completed following a discussion between the student and all supervisors, and additional issues may be included on agreement between both parties. After reading and completing the details of each statement, sign your respective column.

Date: ___________________  Student Name: ________________________________

Supervisor(s) Name(s): ___________________________________________________________________

<table>
<thead>
<tr>
<th>We agree to the following conditions upon entering into a Honours/Master’s/PhD Thesis Supervision Relationship</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Scheduled meetings shall occur every ……. weeks with relevant team members.</td>
<td></td>
</tr>
<tr>
<td>2. At least ……. minutes will be allocated for scheduled meetings, unless otherwise discussed.</td>
<td></td>
</tr>
<tr>
<td>3. Notification by email to all concerned will be sent by the supervisor/student responsible for the cancellation, more than a day in advance of meeting.</td>
<td></td>
</tr>
<tr>
<td>4. Work is to be submitted, as determined by the thesis schedule, or as organized with agreement between student and supervisors.</td>
<td></td>
</tr>
<tr>
<td>5. Feedback on submitted work will occur within ….. weeks for single supervision and …….weeks where multiple supervisor comments are required.</td>
<td></td>
</tr>
<tr>
<td>6. E-mail requests will be answered within ….. days.</td>
<td></td>
</tr>
<tr>
<td>7. Leave from campus of greater than ….. weeks will be advised to all involved in the supervision process.</td>
<td></td>
</tr>
<tr>
<td>8. If a supervisor is absent from campus for greater than ….. weeks, co-supervisors will be expected to provide additional support.</td>
<td></td>
</tr>
<tr>
<td>9. While the student is expected to draft articles for publication, all members of the supervision team are expected to play a role in final submission.</td>
<td></td>
</tr>
<tr>
<td>10. The student is expected to play a significant role in grant applications that aid the project.</td>
<td></td>
</tr>
</tbody>
</table>
### 11a. Honours/Masters students research data release document:

I hereby acknowledge that the data under consideration are from my Honours/Master’s thesis/dissertation, and I give permission to my supervisor(s) to access unpublished data for manuscript preparation. This permission is given on the proviso that my name is included as an author in the publication of such material. The order of placement of my name will be discussed with my supervisor(s) at the beginning of the project. If I am unhappy with the authorship placement decision I am able to involve the Head of School in the decision making process. I also confirm that these data were collected as part of my Honours/Master’s research degree at The University of Western Australia, and the by-line for this research belongs to The School of Sport Science, Exercise and Health at The University of Western Australia.

### 11b. PhD student data release document:

**Clause 1:**

While acknowledge that the data from my thesis/dissertation is my intellectual property, I hereby give permission to my supervisor(s) to access unpublished data for manuscript preparation. This permission is given on the provision that my name is included in the authorship of such material. Placement of my name will be first in the authorship order in any publication that is based on a chapter in my PhD thesis. I also confirm that these are data collected as part of my PhD research degree at The University of Western Australia (and the by-line regarding this research belongs to the School of Sport Science, Exercise and Health at The University of Western Australia).

**Clause 2:**

Should I not produce a paper (or papers) ready for publication within one year after thesis submission, I consent to my supervisor(s) preparing such draft(s). Furthermore, although Clause 1 states that a PhD student is first author on data emanating from his/her thesis, in this one year post-submission scenario, a re-negotiation or discussion of authorship placement will take place. These discussions will revolve around the preparation and submission of the draft, responsibility for responding to reviewers’ comments, and proof reading of the galleys as well as authorship placement and inclusion.

### 12. Notes:

**SIGNATURES:**

<table>
<thead>
<tr>
<th>Student:</th>
<th>Supervisor 1:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
<td>Supervisor 2:</td>
</tr>
<tr>
<td></td>
<td>Supervisor 3:</td>
</tr>
</tbody>
</table>
The UNIVERSITY OF WESTERN AUSTRALIA

SCHOOL OF SPORT SCIENCE, EXERCISE AND HEALTH

HONOURS RESEARCH DATA RELEASE DOCUMENT

I hereby acknowledge that the data under consideration are from my Honours thesis, and I give permission to my supervisor(s) to access unpublished data for manuscript preparation. This permission is given on the proviso that my name is included as an author in the publication of such material. The order of placement of my name will be discussed with my supervisor(s) at the beginning of the project. If I am unhappy with the authorship placement decision I am able to involve the Head of School in the decision making process. I also confirm that these data were collected as part of my Honours research degree at The University of Western Australia, and the by-line for this research belongs to The School of Sport Science, Exercise and Health at The University of Western Australia.

Consent to release data in accordance with the above:

Student Number: ________________________________
Student Name: ________________________________
Degree: ________________________________
Title of Thesis: ________________________________

Name of Supervisor(s): ________________________________

Student’s Signature: ________________________________  Date: ________________________________
Supervisor Signature: ________________________________  Date: ________________________________
# THE UNIVERSITY OF WESTERN AUSTRALIA
## HONOURS BUDGET FORM
### SCHOOL OF SPORT SCIENCE, EXERCISE & HEALTH

| NAME OF STUDENT: .......................................................... |
| STUDENT SIGNATURE: ........................................................ |
| STUDENT NUMBER: ............................................................ |
| EMAIL ADDRESS: .............................................................. |
| MOBILE PHONE/UWA EXT: .................................................... |
| MAIN SUPERVISOR NAME: .................................................... |
| SUPERVISOR SIGNATURE: ...................................................... |
| HONOURS: ENROLMENT START MONTH/YEAR: / COMPLETION MONTH/YEAR: / |
| IS THIS ENROLMENT SPLIT WITH ANOTHER UWA SCHOOL/CENTRE? YES/NO |
| SPLIT% WHAT SCHOOL/CENTRE? ............................................... |
| DO YOU HAVE A SCHOLARSHIP? YES / NO WHAT TYPE? ..................... |
| THESIS ALLOWANCE? YES / NO ............................................... |

### SOURCE OF FUNDS

<table>
<thead>
<tr>
<th>SCHOOL</th>
<th>RESEARCH</th>
<th>GRANT</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### NOTE: ALL VALUES SHOULD BE SHOWN AS EX GST

### MAIN EXPENDITURE

1. EQUIPMENT TO BE PURCHASED (detail below)
2. EQUIPMENT TO BE MADE BY SSEH (materials)***
3. EXTERNAL EQUIPMENT RENTAL (details below)
4. CHEMICALS
5. CONSUMABLES (other than as listed below)
6. ASSAYS
7. SCANS
8. TRAVEL/TRANSPORT (provide details & justification below)
9. SOFTWARE
10. RADIOMETER - SAMPLES USAGE

### WORKSHOP & TECHNICAL STAFF

Will there be more than 10 hours of technical support required? YES / NO
If YES,
(a) have you discussed with Chief Technician and/or School Manager YES / NO
(b) have you received Head of School approval? YES / NO

### IN KIND CONTRIBUTION BY SSEH SCHOOL

- COMPUTER/INTERNET/PHOTOCOPYING/TELEPHONE-STATIONERY/CONSUMABLES ($1,000pa) x 1 Year
  - In-kind Consumables include gloves, tissues, paper towels, alcohol wipes, lancets (for capillary)
  - $1,000

### TOTAL IN KIND SUPPORT

<table>
<thead>
<tr>
<th>SCHOOL</th>
<th>RESEARCH</th>
<th>GRANT</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### TOTAL BUDGET

<table>
<thead>
<tr>
<th>SCHOOL</th>
<th>RESEARCH</th>
<th>GRANT</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### GRAND TOTAL

<table>
<thead>
<tr>
<th>SCHOOL</th>
<th>RESEARCH</th>
<th>GRANT</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*** THE SCHOOL TECHNICAL MANAGER WILL NEED TO PROVIDE A WRITTEN QUOTE

PLEASE PROVIDE DETAILS ABOUT ANY OF THE ABOVE ITEMS WHICH HAVE A SIGNIFICANT COST AND PROVIDE REASONS WHY THEY ARE REQUIRED.

IF NEW EQUIPMENT IS TO BE MADE, HAVE YOU CONSIDERED OTHER OPTIONS? YES / NO

NEW EQUIPMENT - WHAT USE COULD IT BE IN THE FUTURE TO THE SCHOOL?

### ADDITIONAL INFORMATION:

---

---