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Sports Nutrition Coordinator: Dr Tracy Perry. Email tracy.perry@otago.ac.nz

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Dietetics Programme Manager: Dr Julie Weaver. Email julie.weaver@otago.ac.nz

Health Sciences Academic Coordinator: Assoc Prof Caroline Horwath. Email caroline.Horwath@otago.ac.nz
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<thead>
<tr>
<th>Name</th>
<th>Topics Taught</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Katherine Black</td>
<td>Sports nutrition</td>
</tr>
<tr>
<td>Assoc Prof Rachel Brown</td>
<td>Nuts and health; metabolism and health; nutrition communication</td>
</tr>
<tr>
<td>Dr Alex Chisholm</td>
<td>Cardiovascular disease and diet; nutrition counselling; dietetics</td>
</tr>
<tr>
<td>Dr Penny Field</td>
<td>Service management for dietitians; marketing; professional practice; ethics</td>
</tr>
<tr>
<td>Dr Anne-Louise Heath</td>
<td>Iron nutrition; infant nutrition; food-based strategies to improve micronutrient status</td>
</tr>
<tr>
<td>Assoc Prof Caroline Horwath</td>
<td>Theories of behaviour change; behavioural aspects of nutrition promotion; nutrition and health communication</td>
</tr>
<tr>
<td>Assoc Prof Lisa Houghton</td>
<td>Folate and vitamin D; infant and maternal nutrition</td>
</tr>
<tr>
<td>Dr Louise Mainvil</td>
<td>Community dietetics; nutrition communication; public health nutrition programme planning and evaluation</td>
</tr>
<tr>
<td>Professor Jim Mann</td>
<td>Diabetes, obesity, cardiovascular disease, epidemiology.</td>
</tr>
<tr>
<td>Dr Tracy Perry</td>
<td>Sports nutrition; carbohydrates; glycaemic index; diabetes</td>
</tr>
<tr>
<td>Professor Murray Skeaff</td>
<td>Nutritional properties and health effects of vitamin D, folate, and fats and oils; cancer, alcohol, heart disease, lipids</td>
</tr>
<tr>
<td>Assoc Prof Sheila Skeaff</td>
<td>Nutrients and the processes of nutrition; trace elements in health and disease, in particular iodine; sustainable foods and diets</td>
</tr>
<tr>
<td>Dr Paula Skidmore</td>
<td>Childhood and adolescent nutrition; vitamins; dietary patterns and health</td>
</tr>
<tr>
<td>Dr Lisa Te Morenga</td>
<td>Dietary fibre, protein and sugars in relation to obesity, the metabolic syndrome, diabetes and cardiovascular disease</td>
</tr>
<tr>
<td>Ms Carla Thomson</td>
<td>Foodservice management</td>
</tr>
<tr>
<td>Dr Bernard Venn</td>
<td>Vitamins; carbohydrates and metabolism; glycaemic load</td>
</tr>
<tr>
<td>Ms Kirsten Webster</td>
<td>Foodservice management</td>
</tr>
</tbody>
</table>
INTRODUCTION

The Department of Human Nutrition at the University of Otago is the leading Department of Human Nutrition in the Southern Hemisphere and Western Pacific Region. It is committed to the principles of the Treaty of Waitangi. The mission of the Department of Human Nutrition is to develop and enhance our national and international contribution through research, progressive teaching and learning, and the interpretation and dissemination of new knowledge in the field of human nutrition.

The Department has enjoyed international recognition for well over half a century. This recognition helps to support the strong research and professional links with universities and professional organisations throughout the world. The Department is a WHO Collaborating Centre in Human Nutrition for the Western Pacific Region, and it is also home to the Edgar National Centre for Diabetes Research.

The Department of Human Nutrition offers postgraduate study in the general areas of Human Nutrition, Sport and Exercise Nutrition, Community Nutrition, and Dietetics. Within the University the Department is also involved with the teaching programmes in Medicine, Dentistry, Pharmacy, Physiotherapy, Sports Medicine and Physical Education and there are strong research links, too, with several of the departments and schools in the Division of Health Sciences as well as the School of Physical Education.

Research specialties within the Department include nutritional aspects of diabetes and hyperlipidaemias; nutrition and exercise; trace element and mineral nutrition (particularly Ca, Fe, I, Se, Zn); international nutrition; methodologies for the assessment of nutritional status-quantitative and qualitative; studies of nutritional status and practices of the socio-economically disadvantaged; infant feeding practices; models of eating behaviour change; bone health, body composition and obesity, particularly in children and adolescents.

Postgraduate students are normally admitted to one of the following programmes:

(a) Honours
   a. Bachelor of Science (Hons) in Human Nutrition;
   b. Bachelor of Applied Science (Hons) in Sports Nutrition

(b) Postgraduate Diploma
   a. Postgraduate Diploma in Science in Human Nutrition;
   b. Postgraduate Diploma in Applied Science in Sports Nutrition

(c) Master’s
   a. Master of Dietetics;
   b. Master of Science in Human Nutrition;

(d) Students with a relevant prior degree in biological sciences may be admitted to:
   a. Postgraduate Certificate/Diploma in Health Sciences in Human Nutrition
   b. Master of Health Sciences in Human Nutrition

(e) PhD in Human Nutrition.

Research may be conducted in a variety of settings ranging from the community to the experimental laboratory and can involve dietary, anthropometric, laboratory and clinical assessment; experimentally controlled nutrition intervention studies; epidemiological studies, and qualitative research.
**HUMAN NUTRITION POSTGRADUATE PAPERS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUNT 451</td>
<td>Nutritional Assessment</td>
<td>Semester two</td>
<td>20</td>
</tr>
<tr>
<td>HUNT 452</td>
<td>Nutrition and Human Health</td>
<td>Semester two</td>
<td>20</td>
</tr>
<tr>
<td>HUNT 453</td>
<td>Community and Public Health Nutrition</td>
<td>Semester one</td>
<td>20</td>
</tr>
<tr>
<td>HUNT 454</td>
<td>Nutritional Biostatistics</td>
<td>Semester one</td>
<td>20</td>
</tr>
<tr>
<td>HUNT 455</td>
<td>Special Topic*</td>
<td>as required</td>
<td>20</td>
</tr>
<tr>
<td>PUBH721</td>
<td>Methods for epidemiological research</td>
<td>Semester one</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>(for Master’s and Honours students only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUNT 485</td>
<td>Research Project (PGDipSci)</td>
<td>Full year</td>
<td>20</td>
</tr>
<tr>
<td>HUNT 490</td>
<td>Research Project* (PGDipSci)</td>
<td>Full year</td>
<td>40</td>
</tr>
<tr>
<td>HUNT 495</td>
<td>Preliminary Thesis Research (MSc)</td>
<td>Full year</td>
<td>20</td>
</tr>
</tbody>
</table>

* taken only with HoD approval

Candidates for a **Postgraduate Diploma in Science** undertake a research report (HUNT 485).

Candidates for a **Master’s degree** undertake preliminary thesis research (HUNT 495 and a full research thesis HUNT 5).

A Master’s degree **by thesis only** is available for students who have previously passed 400 level papers e.g. a BSc(Hons) graduate or a PGDipSci graduate with suitable grades.

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**Note:**
Students who are intending to enrol full-time for fourth year Honours or the papers year of the MSc can apply for the **Bee Nilson Scholarship**. This scholarship is available only to Human Nutrition and Food Science students who have completed their undergraduate degree at Otago. Applications close on 31 October each year. Information regarding all University scholarships is available from the Scholarships Office.

*HUNT, FOSC or CFSC majors only*
BACHELOR OF SCIENCE BSc(HONS) IN HUMAN NUTRITION

To be admitted to the above degree in Human Nutrition students must fulfil one of the following conditions:

i. have been admitted to the degree of Bachelor of Science majoring in the subject or subjects of study proposed with an average grade of at least B+ for the appropriate 300-level papers; (HUNT 311-314; 355)

ii. have been admitted with the status of one who is entitled to proceed to the degree;

iii. have a qualification acceptable to the Pro-Vice-Chancellor and produce evidence acceptable to the Pro-Vice-Chancellor of ability to proceed to the degree.

The Honours programme must be completed in one year of full-time study. The research project must be submitted by 1 June or 1 November of the semester in which the degree is completed.

Normal structure for the programme is set out below. Some variations may be possible. Consult the University Calendar or the Postgraduate Coordinator.

The BSc(Hons) may be completed by taking

- HUNT 451 Nutritional Assessment
- HUNT 452 Nutrition and Human Health
- HUNT 453 Topics in Behavioural and Applied Nutrition
- HUNT 454 Nutritional Biostatistics
- HUNT 490 Dissertation

Note: Any two of HASC 411, HASC 413, HASC 415, PUBH 721 may be substituted for HUNT 454.

With the permission of the Heads of Departments concerned, a candidate may substitute a paper of another subject for one of the required papers.

Full regulations for the degree can be found at: www.otago.ac.nz/courses/qualifications/bschons.html

The due date for applications is 10 December, although late applications will be considered.
BACHELOR OF APPLIED SCIENCE WITH HONOURS (BAppSc(Hons))
IN SPORT AND EXERCISE NUTRITION

To be admitted to the above degree in Sport and Exercise Nutrition students must fulfil one of the following conditions:

i. have been admitted to the degree of Bachelor of Applied Science majoring in the subject or subjects of study proposed with an average grade of at least B+ for the appropriate 300-level papers.

ii. have been admitted with the status of one who is entitled to proceed to the degree;

iii. have a qualification acceptable to the Pro-Vice-Chancellor and produce evidence acceptable to the Pro-Vice-Chancellor of ability to proceed to the degree.

iv. The Honours programme must be completed in one year of full-time study. The research project must be submitted by 1 June or 1 November of the semester in which the degree is completed.

Normal structure for the programme is set out below. Some variations may be possible. Consult the University Calendar or Dr Tracy Perry, Co-ordinator of the programme.

Papers:

• [HUNT 490] Research Project; and
• [HUNT 451] Nutritional Assessment; and
• One of
  [HUNT 452] Nutrition and Human Health,
  [HUNT 453] Topics in behavioural and Applied Nutrition; and
• One of
  [PHSE 501] Advanced Topics in Exercise Physiology,
  [PHSE 527] Topics in Advanced Physical Education,
  [PHSE 528] Topics in Advanced Physical Education; and
• One of
  [HASC 411] Research Design and Evaluation,
  [HASC 413] Biostatistics,
  [HASC 415] Regression Methods; Health Science Applications;
  and
• [APPS 499] Applied Science Work Experience

With the permission of the Heads of Departments concerned, a candidate may substitute a paper of another subject for one of the required papers.

Full regulations for the degree can be found at:
http://www.otago.ac.nz/courses/qualifications/bappsc.html

The due date for applications is 10 December, although late applications will be considered.
POSTGRADUATE DIPLOMA IN SCIENCE (PGDipSci)

Admission requirements for the Postgraduate Diploma in Science are given on the University of Otago website [http://www.otago.ac.nz/courses/qualifications/pgdipsci.html](http://www.otago.ac.nz/courses/qualifications/pgdipsci.html). The course may be taken by full-time candidates in one year, or by part-time candidates over more than one year.

A Postgraduate Diploma can be obtained by taking either papers only or by taking papers plus a research paper (HUNT 485) or dissertation (HUNT 490).

**Papers only option:**

- HUNT 451 Nutritional Assessment
- HUNT 452 Nutrition and Human Health
- HUNT 453 Topics in Behavioural and Applied Nutrition
- HUNT 454 Nutritional Biostatistics
- and two papers from
  - HUNT 455 Special Topics,
  - NUTN 407 Advanced Sports Nutrition,
  - and other approved 400-level papers

**Papers plus Research Paper option:**

- HUNT 485 Research Project
- HUNT 451 Nutritional Assessment
- HUNT 452 Nutrition and Human Health
- HUNT 453 Topics in Behavioural and Applied Nutrition
- HUNT 454 Nutritional Biostatistics
- and one paper from
  - HUNT 455 Special Topics,
  - NUTN 407 Advanced Sports Nutrition,
  - and other approved 400-level papers

or

- HUNT 490 Dissertation
- HUNT 451 Nutritional Assessment
- HUNT 452 Nutrition and Human Health
- HUNT 453 Topics in Behavioural and Applied Nutrition
- HUNT 454 Nutritional Biostatistics

*Note: Any combination of two papers from HASC 411, HASC 413, HASC 415 may be substituted for HUNT 454.*

With the permission of the Head of Department, a candidate may substitute up to two papers from other related courses of equal standing. (See Appendix E for approved alternative courses.)
For Diploma of Science students opting to take HUNT485 or HUNT490, the research report or dissertation must be submitted **no later than 1 November**. Some guidelines for the format of the report are given in Appendix E.

International students in the Department of Human Nutrition may be required to undertake supplementary study in addition to that prescribed above, depending on their academic record and completed academic qualifications.

The due date for applications is **10 December**, although late applications will be considered.
DIPLOMA FOR GRADUATES

The Diploma for Graduates (DipGrad) can be used for many purposes, and in some cases, effectively provides an additional major. It requires you to do at least seven papers, of which at least four are at 300-level or above. The programme is designed for graduates and may be completed by full-time candidates in one year or by part-time candidates over more than one year.

A DipGrad is a great way to retrain or to update existing qualifications. Many students also find it a convenient way to continue learning and that it is a useful bridge to postgraduate study.

Information for new applicants

The DipGrad is intended for students who have earned a degree. In some cases a student who has not earned a degree may also be eligible.

There are two types of DipGrad: Flexible and Endorsed.

- The Flexible DipGrad allows you to build on any extra papers you may have taken during your degree.
- The Endorsed DipGrad allows you to concentrate your papers in one specific subject area as if you were acquiring an extra major.

If you're thinking of doing a DipGrad, start by talking it over with the DipGrad Director who will advise you of your options. You will then need to complete the online application process to apply for the DipGrad programme and select your papers. This is the usual enrolment process that starts with an online application and ends with a Form for Course Approval. This form needs be signed by the DipGrad Director.

While the DipGrad requires you to do at least seven papers, of which at least four are at 300-level, not all papers at the University are worth 18 points, so the regulations regarding the DipGrad are given directly in terms of points.

Note: Endorsement may require enrolment in papers totalling more than 120 points, depending on the extent of prior study in relevant subjects and whether the student wishes to be eligible for postgraduate study in the subject of endorsement.

Regulations for the Diploma for Graduates (DipGrad)

Admission to the Programme

(a) Admission to the programme shall be subject to the approval of the Senate.

(b) Every applicant shall

   (i) have been admitted to a degree or a diploma of a university in New Zealand; and
   (ii) have attained a satisfactory standard of performance in that degree or diploma; or
   (iii) have submitted evidence satisfactory to the Senate of previous training and experience appropriate to the planned programme of study.

The diploma may be taken in any subject or combination of subjects which constitutes a justifiable and academically feasible programme, taking into account the prior qualifications and experience of the candidate concerned. The papers to be included shall be decided in consultation with the Programme Director and the Heads of the Departments concerned.
Structure of the Programme
(a) Every programme of study for the diploma shall
   (i) consist of papers worth at least 120 points;
   (ii) include at least 72 points for papers at or above 300-level;
   (iii) include such other work as may be prescribed in particular cases.
(b) The Diploma may be endorsed in any of the subjects defined in the Schedule of Endorsements if the programme includes the requirements specified in the Schedule.
(c) Students who have been granted transfer credit, ad eundem credit, or RPL credit, on the basis of work which has not been counted towards any other qualification, may include up to 60 points for such credit in a programme. The credit may be at 100- or 200-level only, except in the case of students participating in the Student Exchange Programme, who may be credited with papers at 300-level or above.
MASTER OF DIETETICS (MDiet)

Dietetics is the profession concerned with the application of scientific knowledge about the role of food and human nutrition in the maintenance of health, and the prevention and treatment of disease. The dietitian plans, communicates, implements, and evaluates effective management strategies based on scientific principles and current knowledge. The training approach directed by the Dietitians Board and applied by the University of Otago is self-directed learning to develop competence in professional dietetic practice, social understanding, ethical behaviour and scholarly concern.

The Master of Dietetics qualification will entitle graduates to registration as a New Zealand Dietitian under the Health Practitioners Competence Act 2003. It is an internationally recognized qualification in Dietetics.

There are currently 36 places available. The availability of practical placements limits the number of places offered on this course.

The Master of Dietetics is a two-year, full-time course.

To be eligible to apply for admission into the MDiet you must have completed the following papers or their substantive equivalent:

100 level: BIOC 192, CHEM 191, CELS 191, HUBS 191, 192, STAT 115, FOSC 111.
200 level: HUNT 221, HUNT 222, HUNT 223, HUNT 231, BIOC 230 or 223, PHSL 251.
300 level: HUNT 311, HUNT 312, HUNT 313, HUNT 314, HUNT 331.

The MDiet consists of six papers:

- **HUND 471** Clinical Nutrition 30 points
- **HUND 472** Community and Public Health Dietetics 20 points
- **HUND 473** Foodservice Management 20 points
- **HUND 475** Applied Dietetics 20 points
- **HUND 477** Professional Placement 60 points
- **HUND 5A, HUND 5B** Research Thesis 90 points

The degree is structured in two sequential parts:

*Part One:* Five papers HUND 471, HUND 472, HUND 473, HUND 475 and HUND 5A, which are taught in the first year of postgraduate study.

*Part Two:* HUND 477 and HUND 5B, which are taught in two one-semester blocks in the second year of study.

Part One is taught on campus in Dunedin. Each week students participate in lectures, clinical skills laboratories, small group sessions, and tutorials. Early Learning in Dietetics (practical experience placements) will be completed under the supervision of dietetic tutors in hospital, community, public health and foodservice environments.

Part Two consists of one semester of placements and one semester of research in one of a number of centres.
MASTER OF SCIENCE IN HUMAN NUTRITION (MSc)

The objectives of the MSc degree in Human Nutrition are to introduce the candidate to human nutrition research at the frontiers of knowledge and to train them in relevant research techniques.

The MSc in Human Nutrition is designed to provide a comprehensive and cohesive programme for those entering the Master’s level as a terminal degree. The programme requires successful completion of prescribed course work, a written thesis, and oral presentations of the research proposal and results in the departmental seminar series.

The MSc degree may be completed in two ways:

The first option is by successful completion of the following prescribed papers in the Department of Human Nutrition and a thesis embodying the results of supervised research.

The prescribed papers are:

- **HUNT 451** Nutritional Assessment
- **HUNT 452** Nutrition and Human Health
- **HUNT 453** Topics in Behavioural and Applied Nutrition
- **HUNT 454** Nutritional Biostatistics
- **HUNT 495** Masters Thesis Preparation

and

- **HUNT 5** (Thesis).

Note:

i. Note: Any two of **HASC 411, HASC 413, HASC 415, PUBH 721** may be substituted for **HUNT 454**.

ii. Only in exceptional circumstances may the above paper requirements be fulfilled after February of the second year of the MSc degree.

iii. A student may, in consultation with the supervisor, add or substitute an alternative paper of an equivalent level and points value, if the student's research project requires it.

In the second year of the MSc students are usually enrolled full-time in their thesis (**HUNT 5**).

The second option is to complete **a thesis only**. For this option the candidate's qualification for entry to the MSc degree is a BSc with Honours or the Postgraduate Diploma in Science or equivalent with an average grade of B+ or higher for the 400-level papers.

Students are encouraged to refer to the *Handbook for Research Master’s Degrees*. This is available as a PDF file on the University's website: [http://www.otago.ac.nz/study/masters/handbook/index.html](http://www.otago.ac.nz/study/masters/handbook/index.html) and provides a comprehensive outline of all details relating to the Master’s programme.
Admission

Graduates from the Department of Human Nutrition at the University of Otago may be admitted following completion of a BSc, provided they have at least a B+ average in the HUNT311-314. Admission to the MSc programme in Human Nutrition for students from other universities is normally by a Postgraduate Diploma in Science. Exceptions can be made provided students hold an Honours degree in Human Nutrition or related discipline.

Adequate background and experience will be ensured by the departmental Postgraduate Admissions Committee for all students before they are permitted to enter the programme. Acceptance as a candidate for the MSc degree is dependent upon the Department being able to provide adequate research funds and supervision in the intended area of research.

Fees

Master’s candidates are required to enrol and pay the prescribed fees each year until the thesis is submitted. Rules about thesis submission dates and an explanation on pro rata fees are printed in the Handbook for Research Master’s Degrees.

HUNT 5 – Master’s thesis

The MSc research is conducted in an area that is being investigated within the Department and under the guidance of one or more supervisors, at least one of whom shall be a staff member in the Department of Human Nutrition. The Master’s thesis proposal must be appropriate in terms of scope of the research question, time limitations, availability of subjects (where appropriate), equipment, and cost to ensure completion within the period allotted for the MSc degree requirements. In the event that appropriate supervision and/or research funds are not available in a student's first choice of a research topic, an alternative research area must be selected.

Early Stage: Preparation

HUNT495

First year MSc students are required to enrol in HUNT 495 (MSc Thesis Preparation). The HUNT 495 paper involves preliminary reading on the research topic, preparing an outline of the literature review, development of a research protocol and presentation of a proposal seminar to staff and students in the Department.

Typically during the second semester of Year 1, MSc candidates should prepare a written thesis proposal in consultation with their supervisor(s), together with an approved budget.

Ethics

Ethical approval from the University of Otago Ethics Committee, or as appropriate the Otago District Health Board Ethics Committee, must be sought at this time for all research involving the use of humans or of personal information (including health records). All of the University’s relevant ethical guidelines for research with human participants and information about applications can be found at the following website: http://www.otago.ac.nz/administration/academiccommittees/otago015522.html

Presentation of thesis proposal

Presentation of MSc thesis proposals in the departmental seminar series should take place during the second semester of the first year of the programme and will be marked.
Second stage: Writing the thesis

The University Library has produced detailed notes on the preparation of theses from start to finish. The latest version of the document may be viewed at the following website: [http://otago.libguides.com/thesisinformation](http://otago.libguides.com/thesisinformation)

Candidates must be very careful in using material from other authors and ensure that it is properly acknowledged and permission obtained to reproduce copyright material in other publications.

The thesis can take the form of either a comprehensive thesis (of not more than 40,000 words of text excluding appendices, footnotes and bibliographies) or research paper(s). Candidates are strongly encouraged to submit a duplicated published text of submitted or published research paper(s) as part of the thesis. Additional material that must be included with submitted or published research paper(s) are: general abstract, a full introduction, brief literature review, and a final overall conclusion. It is important that all authors listed on the publication(s) have contributed in a significant way to the work. Any technical assistance and the source of funding support must be acknowledged in any publications arising from the thesis research.

Presentation of results

Presentation of the research results in the departmental seminar series is expected and this should take place during the final semester of study.

MSc candidates are encouraged to present their research thesis results at a professional meeting such as the New Zealand Nutrition Society and to submit their thesis results for publication in a peer-reviewed journal before they leave the Department. It is customary for papers arising from student thesis research and presentations at scientific meetings based on thesis research to be co-authored by the student and the Department research supervisor(s) (and others who have contributed significantly to the research). The principal author is responsible for the entire publication and should ensure that other authors accept, in writing, responsibility either for the entire paper or for that part of it with which they were concerned. Understanding about authorship of publications from a thesis should be determined at the time of proposal development and approval. Original data of published material should be archived for five years after publication for possible future scrutiny.
POSTGRADUATE CERTIFICATE/ DIPLOMA IN HEALTH SCIENCES ENDORSED IN HUMAN NUTRITION

These qualifications are intended for New Zealand-resident professionals in the healthcare and education sectors without a background in Human Nutrition but with a strong background in biological sciences or Health Science. Although a background in Human Nutrition is not required, a background in physiology and biochemistry is strongly recommended.

These qualifications are intended for New Zealand health and education professionals who are seeking to develop or update their nutrition knowledge and skills in order to complement their work as general practitioners, nurses, pharmacists, dentists, dental nurses, health education or home economics teachers. They are tertiary, not professional, qualifications and do not prepare participants to practise as dietitians. Furthermore the qualifications are not intended for recent graduates in Human Nutrition.

The PGCertHealSc and the PGDipHealSc (Human Nutrition) provide an entry pathway to return to or continue tertiary studies and gain a postgraduate qualification. Students successfully completing the PGCertHealSc in Human Nutrition and achieving at least a B average are eligible to proceed to the PGDipHealSc endorsed in Human Nutrition.

The PGDipHealSc enables the development of postgraduate-level skills in the field of human nutrition, including an advanced capacity for appraisal of research evidence in this field. The qualification provides an entry pathway to continue tertiary studies and gain a postgraduate qualification and entry to a distance-taught Master’s programme. At least a B+ average will be required in the Human Nutrition papers for entry into the Master’s programme.

Papers available

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTN 401</td>
<td>Principles of Human Nutrition</td>
<td>30</td>
</tr>
<tr>
<td>NUTN 402</td>
<td>Nutrition and Health Promotion</td>
<td>30</td>
</tr>
<tr>
<td>NUTN 404</td>
<td>Nutrition and Chronic Disease</td>
<td>30</td>
</tr>
<tr>
<td>NUTN 407</td>
<td>Advanced Sports Nutrition</td>
<td>30</td>
</tr>
</tbody>
</table>

Requirements:

PGCertHealSc  NUTN401 and one of NUTN402, 404, 407

The PGDipHealSc  NUTN401; two of NUTN402, 404, 407; further approved papers to the value of 30pts
MASTER OF HEALTH SCIENCES
ENDORSED IN HUMAN NUTRITION

The MHealSc programme enables healthcare and education professionals to develop advanced skills in the field of human nutrition, including research design skills, and to undertake supervised research in a human nutrition-related area. This is not a professional qualification and does not prepare participants to practice as dietitians.

This qualification is designed to provide a route by which health professionals may gain a Master’s degree in Human Nutrition through full or part time study at distance. The Master of Health Sciences endorsed in Human Nutrition (MHealSc) may be undertaken either as a thesis option or a coursework option.

The Master of Health Sciences endorsed in Human Nutrition is intended for New Zealand-resident professionals with a PGDipHealSc (Endorsed in Human Nutrition), PGDipSc (Community Nutrition) or PGDipDiet. If you are interested in undertaking a MHealSc degree, you are advised to complete an approved 30 point research methods paper as part of your PGDipHealSc. If you have completed the PGDipHealSc first without an approved research methods paper, you will normally be required to complete such a paper before commencing a research thesis or dissertation.

Papers available

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Points</th>
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<tbody>
<tr>
<td>NUTN 401</td>
<td>Principles of Human Nutrition</td>
<td>30 points</td>
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<tr>
<td>NUTN 402</td>
<td>Nutrition and Health Promotion</td>
<td>30 points</td>
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<td>NUTN 404</td>
<td>Nutrition and Chronic Disease</td>
<td>30 points</td>
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<tr>
<td>NUTN 407</td>
<td>Advanced Sports Nutrition</td>
<td>30 points</td>
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Requirements:

**Thesis option**
NUTN401; two of NUTN402, NUTN404, and NUTN407; and 30pts of approved research methods paper and a 120pt thesis.

**Coursework option**
NUTN401; two of NUTN 402, NUTN404, and NUTN407; and approved research methods paper to the value of 30pts, and further approved papers (may include the remaining NUTN paper) to the value of 60pts; and a 60pt research dissertation.
PhD IN HUMAN NUTRITION

The doctoral programme in Human Nutrition aims to promote intellectual independence and to develop the attitudes and capabilities to undertake further independent research at an advanced level. The PhD is distinguished from a Master’s, both in the nature and depth of scholarship expected.

There is no required course work for the PhD at the University of Otago. Candidates, however, may be asked to enrol in a paper(s) to gain additional knowledge or skills relevant to the proposed research.

The degree of Doctor of Philosophy at the University of Otago is acquired solely by the submission of a research thesis prepared under supervision. All PhD students are required to have at least two supervisors for their research. The research undertaken must make a significant contribution to knowledge and understanding or application of knowledge. As well, the PhD research is expected to lead to publication in international refereed journals and to seminar and/or conference presentations at major professional meetings.

Entry requirements

Students entering a PhD programme should show potential for independent, productive, original research. A PhD programme can be entered by three routes:

(i) successful completion of an Honours degree or equivalent with excellent academic standing and strong indications of research potential in Human Nutrition or related discipline

(ii) completion of an MSc programme

(iii) in exceptional circumstances, students can transfer to the PhD degree prior to completion of an MSc programme. Students wishing to be considered for transfer to a PhD programme prior to completion of the MSc programme must so indicate before the end of the second semester of the MSc programme.

Criteria for transfer include demonstration of all or some of the following:

(a) excellent academic record as indicated by at least an A-average in the 400-level prescribed papers;

(b) evidence of a strong aptitude for independent, productive and original research;

(c) demonstration of excellent oral and written communication skills;

(d) demonstration of involvement in the preparation and submission of a research article to a peer-reviewed scientific journal.

The final decision regarding transfer to the PhD programme is made by the University’s PhD Academic Advisory Committee, and must have the support of the supervisor(s) and the Head of Department. Information for students wishing to transfer from Master’s to PhD is contained in the Handbook for Masters Research Students, or on the website at http://www.otago.ac.nz/study/masters/handbook/index.html.

Acceptance as a candidate for the PhD degree is also dependent upon the Department being able to provide adequate research funds and expert supervision in the intended area of research. Initial registration for the PhD degree is provisional and is confirmed after one year of full-time or part-time study. It is necessary for all PhD students to both apply for
registration as PhD candidates and enrol in each year of study as students of the University of Otago.

Reporting Progress

The PhD programme is supported by a rigorous process for reporting progress as required by the regulations for the PhD degree. The reporting system is based on two major principles:

- The process should provide a stimulus for honest dialogue between the candidate, supervisors and the department; and
- The process should encourage candidates to conduct a careful and regular review of their achievements and to set goals for the next phase of research.

The timing of progress reports is calculated from the date of admission to the programme. Progress reports are due at the following intervals: after six months, one year, and then annually thereafter until the submission of the thesis or termination of candidature. Further details of the reporting progress are in the Handbook for PhD student, which can be downloaded at [http://www.otago.ac.nz/study/phd/handbook/index.html](http://www.otago.ac.nz/study/phd/handbook/index.html).

Publications arising from the thesis research work

It is customary for papers arising from student thesis research and presentations at scientific meetings based on thesis research to be co-authored by the student and the Department research supervisor(s) (and others who have contributed significantly to the research). Understanding about authorship of publications from a thesis should be determined at the time of proposal development and approval. When preparing research papers for publication, the principal author is responsible for the entire publication and should ensure that other authors accept, in writing, responsibility either for the entire paper or for that part of it with which they were concerned. It is important that all authors listed on the publication shall have contributed in a significant way to the work.

When papers based on work completed as part of the PhD thesis are submitted, are in press, or in print, it may be possible to include them as chapters in the thesis, providing that the thesis as a whole presents a coherent and integrated account of the research. More information is available in the University of Otago Handbook for PhD Study.

During the preparation of the thesis, candidates must be very careful in using material from other authors and ensure that it is properly acknowledged and permission obtained to reproduce copyright material in other publications.

Any technical assistance and the source of funding support must also be acknowledged in any publications arising from the thesis research. Original data of published material should be archived for five years after publication for possible future scrutiny.

Ownership of intellectual property resulting from research is defined in the University of Otago Policy for Intellectual Property Rights. A full statement of the University Council’s Policy can be accessed on the website [http://www.otago.ac.nz/administration/policies/otago003228.html](http://www.otago.ac.nz/administration/policies/otago003228.html).
Presentations

PhD students are required to present their proposals and results in the departmental seminar series. Normally, presentations of PhD thesis proposals should take place during the second or third semester of study. Presentation of PhD research results should take place during the final semester of your studies. PhD students are expected to host a Journal Club during the mid-term of their PhD programme.

Format and printing of the thesis

Guidelines on the format and regulations for the presentation of a PhD thesis can be found in the Handbook for PhD Students available at http://www.otago.ac.nz/study/phd/handbook/index.html.

Handing in the thesis

Full details of the process to be followed on completion of the thesis are set out in the University of Otago Postgraduate handbooks on the following website: http://www.otago.ac.nz/study/phd/index.html.
ADMISSION OF INTERNATIONAL POSTGRADUATE STUDENTS

The University of Otago is strongly committed to a policy of international education. Enquiries are welcome and should be directed to the International Admissions Coordinator, International Office, email international@otago.ac.nz Other relevant information e.g. fees, accommodation, immigration requirements, application forms etc. are available at http://www.otago.ac.nz/international/index.html. For degree courses requiring thesis work only there is no closing date for applications. For courses involving taught papers the closing date for applications is 1 October.

New international PhD students pay domestic fees. They will also be able to work for up to 20 hours a week during term. Their partners will also be eligible for an open work permit valid for the duration of the student’s course of study.

ENGLISH LANGUAGE REQUIREMENTS

Students whose applications are based on qualifications gained outside New Zealand and for whom English is not their first language are required to meet an English language proficiency standard before they can be considered for admission to any postgraduate courses in the Department of Human Nutrition. The English language requirement may be met by a minimum score in the Test of English as a Foreign Language (TOEFL) of 577 or better and a Test of Written English (TWE) with a pass mark of 4.5 or better. Alternatively, applicants taking the International English Language Testing System (IELTS) must achieve a score of 6.5 or better. For the MDiet, applicants must achieve a score of 7.5 or better, with a minimum score of 7.0 in each of the four bands.

Students for whom English is not the first language may also be required to undertake supplementary study in addition to that prescribed for the postgraduate course being taken, depending on their academic record and completed academic qualifications.
DEPARTMENTAL FACILITIES

Students will be assigned a desk in one of the postgraduate study rooms (where space allows). Most of these are shared spaces. Students are also assigned a box for post in the Office (7n8). Telephone access is provided in the study rooms. Those who wish to use a library carrel should apply to the Information Desk, Science Library, Ext 7823.

Postgraduate students are issued with a pin number for use on the departmental photocopier. Printing facilities are also provided by the Department via the photocopier. Each student is given an allowance of $20 (1000 pages) per year for photocopying and/or printing.

Students are expected to provide their own stationery. Only stationery required for research projects can be obtained from the departmental office.

Some departmental computers are available for graduate student use.

Student Computing Services manages a number of computer resource rooms spread across the Dunedin campus. All enrolled students may use these facilities. These rooms have networked Macintosh and PC computers and resources such as word processing, spreadsheets, Computer Aided Learning (CAL) and Blackboard. Full internet access and laser printing are available in all resource rooms. Self-teach materials are available in the resource rooms.

Short courses in specific areas of computing are organised by ITS. For more advanced computer training students can book a class run by ITS Training for a small fee. Further information can be found by visiting the website http://www.otago.ac.nz/its/training/student.html. A list of the computer competencies required by MSc and PhD candidates in the Department of Human Nutrition are given in Appendix C.

Postgraduate students in the Department also have access to a Nutritional Analysis Programme and the Crop and Food Research Nutrient Database. Licence agreements do not allow copies of these to be taken outside the Department or the University.

Graduate Research Student Liaison Committee (GRSLC)
The main objective of this Committee is to provide an official forum for students to discuss issues relating to graduate research at Otago. Members of the Committee may make recommendations for change to any appropriate processes or regulations. The Committee meets every two months and comprises representatives from all the academic divisions as well as Maori and international students.

If you would like to raise a particular issue with the Committee, please feel free to contact your divisional representative on the Committee and ask them to place the matter on the agenda of the next meeting. The following website provides contact details of the members of the Committee. http://www.otago.ac.nz/administration/committees/grslc/.

RESEARCH COSTS AND RESEARCH FUNDING

Consideration of the anticipated costs of a student's research project and of the available sources of funding should be made at the time the MSc or PhD thesis topic is being formulated. It is the joint responsibility of the student and the supervisor(s) to ensure that there are sufficient funds to meet the costs of the proposed project. The student should discuss questions regarding research costs and funding sources with their supervisor(s).
FINANCIAL ASSISTANCE FOR POSTGRADUATE STUDENTS

All students are encouraged to complete applications for external and University scholarships, and/or fellowship awards. Eligible students should plan to apply for these awards, allowing ample time to complete the application and arrange for the necessary letters of reference from academic staff. A summary printout of all sources of funding and awards is available on request from the Scholarship Officer whose office is located on the ground floor of the Registry Clock Tower Building (Tel 03-479-5291). An annual display of this material is also set up in the Registry from mid-August until 1st October, which is the closing date for many awards.

Details regarding all available scholarships and awards are available on the website: http://www.otago.ac.nz/study/scholarships/database/index.html.

Examples of external awards are: New Zealand Official Development Assistance Postgraduate Scholarship, Health Research Council, National Heart Foundation of New Zealand.

Travel Funds for Conferences

The Royal Society of New Zealand offers Science Awards for Beginning Scientists to attend their First Overseas Scientific Conference, usually a PhD student in the third year of study. The award is no more than NZ$1000.

The Division of Sciences also offers travel assistance for PhD students, normally in their third year of study to attend conferences related to their research. Application details can be obtained from the Office of the Division of Science.

Some outside organizations also offer general financial support. Information on these organizations is listed in the Scholarship summary printouts available from the University’s website at http://www.otago.ac.nz/study/scholarships/database/index.html. The Nutrition Society of New Zealand (Inc.) also offers assistance to internal full-time students presenting a paper at their annual conference. In some circumstances, students can obtain some travel assistance from research grants held by their supervisor(s).

University of Otago Scholarships

These scholarships and awards are designed primarily for domestic students. International students are eligible to apply for an award or scholarship but they are not entitled to assistance with fee payments beyond the domestic fee level. They must meet the shortfall between domestic and full cost fees.

Postgraduate Scholarships may normally only be awarded to candidates enrolled for a full-time course for the degree of Doctor of Philosophy who achieved an average grade of A- or higher in the fourth year of an Honours degree, or in a postgraduate diploma or equivalent, or in a Master's degree. Tenure is for three years, subject to the provision of a satisfactory annual PhD progress report by the Department. The current value of an Otago doctoral scholarship is fees plus NZ$25,000 per year for up to three years. Applications can be made at any time.

Bee Nilson Scholarships are awarded to Otago students of Human Nutrition or Food Science who are enrolling in either the final year of a BAppSc Honours degree or the papers year of a
MSc or MAppSc degree. The value of the award shall be payment of tuition fees (at domestic student rate) plus an allowance of $6000 for one year. Note: This scholarship is not available to MDiet students.

**University of Otago Postgraduate Award** Students are encouraged to apply for these to support their thesis study at the end of the 300 level year. These awards may normally only be awarded to candidates enrolled in a full-time course for a Master's degree involving the preparation of a thesis who achieved an average grade of B+ or higher in the fourth year of an Honours degree, or in a postgraduate diploma or equivalent. Tenure is for one year.

**University of Otago Maori Postgraduate Scholarships and Awards** These scholarships may be held only by Maori students.

**University of Otago Postgraduate Publishing Bursary (Master’s and PhD)** These are bursaries awarded to Master’s and PhD candidates whose theses are under examination so as to continue with their student research by preparing papers to the submission stage for publication in journals of international standing (recipients are required to acknowledge the support of the University of Otago Research Committee, by means of the University of Otago Postgraduate Publishing Bursary in any publications prepared during this period). For further information consult the relevant postgraduate handbook.

**Divisional Teaching Assistantships**
The Division of Science offers a limited number of Divisional Teaching Assistantships which cover payment of tuition fees, and an annual non-taxable emolument plus payment on an hourly rate for any tutoring or demonstrating which is undertaken. Assistantships may be held, subject to annual reconfirmation, for (a) up to three years by students enrolled for the degree of Doctor of Philosophy and (b) up to two years by students enrolled for a Master's degree. Assistantships may not be held concurrently with other scholarships or awards, but no limit is placed on additional earnings provided that the academic criteria for full-time study are met.

**Department of Human Nutrition Demonstrators**
The Human Nutrition Department has a limited number of demonstrator positions, depending on undergraduate numbers and current funding levels. Applications are invited in December; positions are confirmed in February. Preference is given to senior postgraduate students for these positions. Senior postgraduate students may also be invited to give some 200 level nutrition lectures. Students selected to be demonstrators or to present some lectures are encouraged to attend courses held by the Higher Education Development Centre.

**University of Otago Scholarships for International Postgraduate Students**

**Jubilee 125 Scholarships** provide both an emolument and full international fees. Only three scholarships are available per annum and they are targeted for students only in Thailand, Malaysia and Singapore. Travel to and from their home country at the outset and conclusion of their study is also covered, courtesy of Air New Zealand.

**New Zealand International Doctoral Research Scholarships** are funded by the New Zealand Government and are administered by Education New Zealand. They provide financial
support for students from designated countries undertaking doctoral degrees by research in New Zealand universities. They are awarded on the basis of academic merit.

**William Evans Fund** provides a maximum of two scholarships per year for postgraduate students from overseas. It provides an emolument and payment of full fees and is intended for PhD candidates of the highest quality from within any field of study.

**Vice-Chancellor's Full Fee Only Scholarships** are designed for the highest quality international students who wish to study in significant research groups within the University. The scholarships are for fees only, with the expectation that external funding will provide the emolument and research support. Up to five scholarships are available at any one time.

Details regarding all available scholarships and awards are available on the website: [http://www.otago.ac.nz/study/scholarships/database/index.html](http://www.otago.ac.nz/study/scholarships/database/index.html).
RESEARCH INTERESTS OF STAFF AND EXAMPLES OF THESES

Dr Katherine Black
Katherine Black’s research is currently centred around investigating how nutrition can be manipulated to enhance performance. A major focus of her research is hydration and the manipulation of drink properties to aid hydration and/or performance, although other supplements and foods have also been investigated. Currently Katherine is collaborating with Dr Lynnette Jones (School of Physical Education) investigating the role of exercise and nutrition amongst breast cancer survivors. She has also established research links with the Chiefs Rugby franchise and is continuing to collaborate with scientists in the UK.

Ethnic differences in sweat sodium concentration of athletes with Drew McLean (MSc)
Effect of pre-exercise meal composition on performance and markers of muscle damage in basketball players with Hannah Gentle (MSc)
Effective salt supplementation on endurance performance with Sam Cosgrove (MSc)
An evaluation of the nutritional supplement knowledge and practices of able-bodies athletes and athletes with spinal cord injury with Dave Shaw (MDiet)
The effect of probiotics on the incidence, duration and severity of illness in elite rugby players with Brylee Haywood (MDiet)
Dietary intakes of female youth football players with Hannah Gentle (BAppSc(Hons))

Assoc Prof Rachel Brown
Rachel’s research interests lie in the areas of nuts and health, energy metabolism, sports nutrition, and lipid metabolism. Recently she has been involved in research investigating the effects of nut consumption on plasma lipids and lipoproteins, inflammation and endothelial function. This research also investigated whether public health advice regarding nut consumption for the reduction in cardiovascular disease risk is sustainable and achievable. She is also currently involved in a research project investigating potential differences in individuals who report difficulties in losing weight (conservers) compared to individuals who report difficulties in gaining weight (expenders).

The role of nuts in a healthy diet: body weight regulation, lipid profile and consumers’ acceptance with Siew Ling Tey (PhD)
Characteristics of obesity resistance and susceptibility with Rebecca Cooke (PhD)
The Nuts2Study with Terryn Robinson (MSc)
Ethnic differences in sweat sodium concentration of athletes with Drew McLean (MSc)
A cross sectional study of the behavioural differences between obesity-resistant and obesity-susceptible individuals with Nicky Renall (MDiet)

Dr Alex Chisholm
Dr Chisholm’s research investigates the relationship between alteration in dietary components and changes in biochemical and anthropometrical variables in treatment of lipid disorders and reduction in cardiovascular disease risk. Targeting both hyperlipidaemic and normolipidaemic persons, her research focuses on diets and the effects of specific food constituents (total fat, fatty acids, folate, carbohydrates, protein) and foods (butter, margarine, coconut fat, dairy products, nuts, monounsaturated and polyunsaturated oils, total dietary fat).
The role of nuts in a healthy diet: body weight regulation, lipid profile and consumers’
acceptance with Siew Ling Tey (PhD)
The Nuts2Study with Terryn Robinson (MSc)
The Tailored Diet Study: The effects of dietary modification in Familial
Hypercholesterolemia with Jasmine Ong (MDiet)
The effect of dietary advice and regular follow up on blood cholesterol levels and dietary
intake in patients with Familial Hypercholesterolaemia with Elisse Crawford (MDiet)

Dr Penny Field
Penny’s research interests are in the areas of evidence use in public health nutrition policy;
food marketing to children and the role of the food industry in public health nutrition; factors
influencing the development of effective nutrition policy, use of social marketing practices in
the health sector; dietetic education and reflective practice.
In 2014 she completed a PhD examining the factors that facilitate the use of evidence in
public health nutrition policy. Current research activities include investigating the role of
local authorities and health sector organisations in establishing healthy food environments.
Capacity of New Zealand local authorities for policy promoting healthy food environments
with Jacinda Gower (MDiet)

Dr Anne-Louise Heath
Anne-Louise Heath's areas of research interest are iron nutrition, infant nutrition, and the use
of food-based strategies to improve micronutrient status. In particular she is interested in the
aetiology, dietary treatment and functional health consequences of iron deficiency and
overload states; the role of nutrition in children's health; breastfeeding; and the nutrition of
other minerals, in particular zinc.
Infant obesity and iron related to baby-led weaning with Sonya Cameron (PhD)
Validating a FFQ in infants 12-18 months with Emily Watson and Virginia Mills (MSc)
The prevention of overweight in infancy (POI) project – collaboration with three Australian
studies with Megan Somerville (MSc)
Breastfeeding stories: perceptions of insufficient milk supply in breastfeeding mothers with
Nicola Harris (MSc)
Meat, total and haem iron intakes of New Zealand toddlers aged 12-24 months with Ashleigh
Barris (MDiet)

Assoc Prof Caroline Horwath
Caroline’s expertise in the field of behavioural nutrition explores factors influencing eating
behaviour and implications for nutrition and health promotion. Her particular interests
include psychological influences on eating habits and weight gain, women’s health promotion
and innovative approaches to the management of overweight and obesity.
Identifying predictors or weight gain prevention to be targeted by an intervention for adult
women with Sara Boucher (PhD)
Prevention of weight gain: prospective study of a nationwide cohort of mid-life women with
Sook Ling Leong (PhD)
Predictors of weight gain prevention in a representative nationwide cohort of mid-age women
with Heidi Sharples (MSc)

Weight control practices and regulation of eating behaviour in a large random population
survey of New Zealand women with Sook Ling Leong and Clara Madden (MSc)

Daily stress and eating behaviour in Otago University students with Bonnie White (MSc)

Assoc Prof Lisa Houghton
Lisa Houghton's research is focused primarily on micronutrient health including folate, other
B vitamins and vitamin D with a particular emphasis in the area of maternal and child
nutrition in low income countries. Current topics of investigation include the implementation
of food-based strategies for combating micronutrient deficiencies; assessing the impact of
maternal micronutrient status on human milk content and infant status; assessing the
prevalence and consequence(s) of vitamin D deficiency/insufficiency during pregnancy,
lactation and early life.

Folate and one-carbon metabolism-related nutrients in lactating women, human milk, and
exclusively breast-fed infants with Rose Stamm (PhD)
An evaluation of the accuracy of folate microbiologic assay and comparison with liquid
chromatography-tandem mass spectrometry with Rose Stamm (MSc)
Predictors of vitamin D status in New Zealand adults and the effect of vitamin D2 and
vitamin D3 supplementation on 25-hydroxyvitamin D and parathyroid hormone
concentrations with Victoria Logan (MSc)
Predictors of periconceptional folic acid supplement use among New Zealand women and the
potential of mandatory fortification to improve inequalities in folic acid intakes with
Simonette Mallard (MSc)
Physical activity and serum-hydroxyvitamin D concentrations in New Zealand children with
Rose Skerten (MSc)

Dr Louise Mainvil
Dr Mainvil's research interests include: public health nutrition (health promotion)
interventions; psychological, social, cultural, environmental and economic influences on food
choice and eating behaviours; computer-tailored nutrition communications; translational
(implementation) research; mixed methods research.

Mediation analysis of the 5+YourWay study with Ingrid Hart (MSc)
Out of the box: What factors prevent families eating more fruits and vegetables? with Sophie
Carty (MSc)
The 5+YourWay Coach Service: Feasibility in General Practice with Sarah Matthews (MDiet)

Professor Jim Mann
Jim Mann’s research has principally been in the fields of lipids and carbohydrates as they
relate to coronary heart disease and diabetes and in the field of obesity. More recently he has
been particularly interested in the role of obesity as a cause of cancer. He also works as an
endocrinologist with a particular interest in the care of people with diabetes and lipid
disorders.
The role of a high fibre and high protein diet in modifying insulin resistance and other risk factors for cardiovascular disease with Lisa Te Morenga (PhD)
Measures of obesity and diabetes risk and optimal diet composition for diabetes prevention for Maori with Lorraine Brooking (PhD)
Pilot study: Can MRS be used to effectively assess the effects of dietary intervention on changes in liver fat stores? with Peter Crutchley (MSc)
Glycaemic index of rice in Asian and caucasian consumers with Minako Kataoka (MSc)
Consumers’ understanding of ‘natural’ implied health claims within New Zealand and Australia with Nadia Vather (MSc)

Dr Tracy Perry
Tracy Perry’s research interests lie in the areas of the effect of glycaemic index on recovery metabolites; immune function measures and performance in endurance trained athletes; comparisons in glycaemic and insulinaemic responses (and glycaemic index) between trained and untrained, in both young and elderly individuals. She also oversees the Department's commercial contracts for Glycaemic Index testing.

The effects of physical activity on postprandial metabolism: continuous exercise or regular activity breaks? with Meredith Peddie (PhD)
Metabolic response trained adolescent swimmers to nutrition recovery supplementation with differing glycaemic indices with Will Payne (MSc)
Smartphone diet application use and dietary assessment in sports dietetics with Michelle Jospe (MDiet)
Delayed onset of muscle soreness in Otago Rugby Union players with Abby Shaw (BAppSc(Hons))
The effect of antioxidants on ultra endurance sports performance with Jody Huxford (BAppSc(Hons))

Professor Murray Skeaff
Murray Skeaff’s research interests lie in the nutritional properties and health effects of vitamin D, folate, and fats and oils. His research focuses on population as well as individual health. One of his specialist fields in nutrition research includes the health effects of fats and oils on cardiovascular disease. Other research activities involve collaborative and multidisciplinary projects on topics ranging from cognitive function in older people, folate and neural tube defects, to assessing the vitamin D status of New Zealanders.

Folate status of women of childbearing age: the effect of fortifying the food supply with folic acid with Kathryn Bradbury (PhD)
The effect of selenium supplementation on high-risk cardiac patients with Jody Miller (PhD)
Physical activity and serum-hydroxyvitamin D concentrations in New Zealand children with Rose Skerten (MSc)
Serum fatty acids as predictors of serum cholesterol concentrations: a comparison of two units of fatty acid measurement with Kathryn Bradbury (MSc)

Assoc Prof Sheila Skeaff
Sheila Skeaff has expertise in the assessment of trace elements, with particular emphasis on iodine. She conducts research on the iodine status of sub-groups of the population, including
children and pregnant women. Dr Skeaff is also interested in elucidating the consequences of mild iodine deficiency on normal growth and development, including cognition. Dr Skeaff is also part of a multi-disciplinary group developing a tool to measure the environmental literacy of university students. She is also conducting research on sustainable foods and diets.

The micronutrient status of rural and tribal pregnant women living in rural India with Kavitha Menon (PhD)
The nutrient status of tribal pregnant women living in Ramtek Block, Nagpur, India with Roshni Mistry (MSc)
The effect of iodine supplementation on cognition and well-being in young adults with Penelope Fitzgerald (MSc)
A comparison of the iodine status of New Zealand women aged 18-40 years before and after fortification of bread with Julia Edmonds (MSc)
Kiwi women and iodine in pregnancy study with Abby Billing (MDiet)

Dr Paula Skidmore
Paula’s primary research focus is on lifecycle nutrition and how social and environmental factors affect food choice and activity and subsequent risk of chronic disease in large population studies. Her secondary research area is the development of novel research tools for use in epidemiological studies (e.g. FFQs for use in New Zealand toddlers, children and adults; electronic food diaries and other forms of dietary assessment for use in adolescents; indicators of overall dietary quality in various age groups and instruments to assess home food availability; questionnaires to assess psychosocial and environmental determinants of food choice and physical activity)

Social and environmental correlates of fruit and vegetable consumption in Otago adolescents with Anna Howe (PhD)
Childhood and adolescent nutrition: an epidemiological aspect with Jyh Eiin Wong (PhD)
A validation study of a New Zealand specific short-form food frequency questionnaire using biochemical indices with Cecilia Sam (MSc)
Associations between a home food inventory and selected non-communicable disease factors in 50-year old Cantabrians with Emily Grant (MDiet)
Cognitive impairment, cardiovascular disease risk and selected nutrient intake in a sample of 50-year old Cantabrians with Gemma Lilly (MDiet)

Dr Lisa Te Morenga
Lisa’s research interests involve the effects of macronutrient composition on physiological endpoints associated with increased risk of preventable diseases including obesity, the metabolic syndrome, diabetes and cardiovascular disease. Key macronutrient interests are dietary fibre, protein and sugars.

Pilot study: Can MRS be used to effectively assess the effects of dietary intervention on changes in liver fat stores? with Peter Crutchley (MSc)
Dietary sugar and blood pressure: a systematic review and meta-analysis with Alexandra Howatson, (MDiet)
A meta-analysis on the effects of dietary sugar on blood lipids with Rhiannon Jones (MDiet)
Dr Bernard Venn
Dr Venn’s research areas include folate; carbohydrates as they relate to chronic disease prevention and treatment; glycaemic index, carbohydrate metabolism; glycaemic load; satiety of foods; folate and vitamin B12. He has expertise in the vitamins folate and B12, particularly as these relate to homocysteine metabolism. Dr Venn has expertise in dietary intervention regarding carbohydrate food sources and metabolism. He conducts research on available carbohydrates (starches and sugars) and unavailable carbohydrates including oligosaccharides and non-starch polysaccharides (dietary fibre). Dr Venn is also interested in developing and testing novel foods having the potential to provide health benefits and in whole grains.

Rice-mix lowers postprandial glycaemia in Asian people with type II diabetes with Zhuoshi Zhang (MDiet)
Satiating effects of a rice-mix in Asian people with Type II diabetes with Jessica Kane (MDiet)
Glycaemic index of rice in Asian and caucasian consumers with Minako Kataoka (MSc)
Investigation into the nutritional causes of optic neuropathy in PNG prisoners with Camilla Gould (MSc)
The relationship between food security and weight with Hayley Stevenson (MSc)
EXAMPLES OF POSITIONS HELD BY RECENT GRADUATES

Rosie Gordon BSc, MSc
Smokefree Regional Programme Leader, Public Health South.

Rosie provides regional leadership, management and coordination for smokefree activity across the southern DHB region. Specifically it includes developing a regional tobacco control plan (e.g. what is the DHB going to do to address smoking in its communities, and how it will do it), ensuring it delivers on Ministry of Health smokefree contracts, and also providing local leadership for one of the national health targets - Better Help for Smokers to Quit. Rosie also manages the DHB's Smokefree Coordinators who work across the nine hospitals and primary care settings to train health professionals in smoking cessation. “The skills I learned while doing my master’s have been invaluable for the planning and project management side of my job, and personnel management is something I've learned on the job.”

Aimee Burns PGDipDiet, MSc, Registered Dietitian
Sports and health dietitian.

Aimee is a New Zealand Registered Dietitian and has a Master’s degree in Nutrition from the University of Otago. Aimee is also an ISAK Level 1 Accredited Anthropometrist (body composition testing) and a Nutrition Provider for the New Zealand Academy of Sport, where she is the Lead Nutritionist for the Canterbury Rugby Academy and the New Zealand Under 21 Netball Team. Aimee specializes in sports nutrition and she has a wide range of experience dealing with athletes from both team and individual sports. Aimee’s interest areas are nutrition research, performance and competition nutrition, eating to optimise energy levels and mostly importantly healthy eating and disease prevention through nutrition.

Jenny Campbell BCapSc, MSc
Regulatory Strategist, Fonterra

The role involves interpreting food laws in the different countries that Fonterra exports to (e.g. US, China, Europe) and translating this into what sort of claims, labelling etc can be put on various products ranging from yoghurt, cheeses to milk proteins, functional and paediatric nutrition products. Fonterra is an international company and has many offices around New Zealand. The role involves a fair amount of travel, which she really enjoys.

After graduating Jenny worked in London for the Food Standards Agency as a nutritionist on their Saturated Fat & Energy Intake Programme. This involved working with food industry partnership groups to set up a campaign to raise public awareness about sources of saturated fat in the diet and to encourage healthier options.

Alison Bradshaw BPhEd (Hons), BSc, MSc
Research Associate in the School of Kinesiology and Health Sciences, Queen’s University, Kingston, Ontario, Canada

Alison is part of a research group of 15-20 who are working on the prevention and reduction of abdominal obesity and related co-morbid conditions such as insulin resistance, through development of lifestyle-based strategies.

Christina McKerchar BCApSc, MSc
National Coordinator, Agencies for Nutrition Action, New Zealand

Christina (Ngati Kahungunu, Ngati Porou) graduated from Otago University with BCApSc in Human Nutrition and worked for five years as a nutrition advisor for Te Hotu Manawa Maori. She also completed a Master of Science degree, majoring in Community Nutrition, based on her work at Te Hotu Manawa Maori.
Her current role as National Coordinator focuses on supporting networking and co-ordination through continuing to expand the organisation’s website, producing ANA’s newsletters and organising ANA nutrition and physical activity forums throughout New Zealand. She played a "hands on" role in the organisation of a national nutrition and physical activity public health conference in 2005. Her other focus includes supporting national hui, and national fono.

Charlotte Adank BPhEd, BSc, MSc
Public Health Analyst, Otago District Health Board

This position involves providing public health expertise in the decision making processes of the District Health Board. Charlotte works with the Ministry of Health to support public health providers in the Otago region. Her work also involves qualitative and quantitative analysis of the Otago DHB population health information and data, and of health inequalities including specific issues for Maori and Pacific people. She is involved in planning, researching, assessing and presenting policy and programmes and also contributes to Southland and Otago DHB prioritisation decisions.

Glenn Kearney BPhEd/BSc, MSc

Glenn’s role took him around the world with the Rugby Union and other sports people, developing nutrition education for athletes, looking into safe supplementation programmes for elite players, and maximising recovery from intensive rugby campaigns. “The quality of the facilities and teaching staff in these areas at Otago, exposure to top researchers and also the pool of like-minded young people within the Otago campus – these things have been a huge benefit to my career.”

Claire Smith BSc, MSc, PhD
Research Fellow, Otago University

On completing her MSc Claire spent two years working as a Research Fellow on the Children’s Nutrition Survey. This was a great opportunity to be involved in a large survey from start to finish. Claire mainly worked on the 24 hour diet recall component of the survey. After moving to England she secured a job as a nutritionist in the head office of a large supermarket chain (ASDA). This was a varied role and involved working closely with technical and marketing teams on nutrition labelling, customer information and website and Government schemes to reduce fat and salt in food. Claire is now working as a Research Fellow in the Department of Human Nutrition.

Nikki Hart MSc PGDipDiet, Registered Dietitian
Private Practice Dietitian, Sport and Health Dietitians, Auckland

In 1996 Nikki established a successful private nutrition practice in Auckland, working with weight loss and eating disorder clients, and has built up a strong following of sports clients. She operates Sport and Health Dietitians and has a website providing nutrition information. Nikki is also a nutrition consultant for the New Zealand Academy of Sport, Sports Science New Zealand and various food companies. As well as lecturing at the Auckland University of Technology and Massey University, Nikki enjoys media roles with television and regularly contributes to popular magazines and promotes healthy eating in a fun and practical way.

Ewa Szymlek-Gay, BSc, PhD
Postdoctoral Fellow, Umea University, Sweden.

After completing her PhD in food-based strategies to improve dietary iron intake and biochemical iron status in 12-24 month old New Zealand children, Ewa was awarded a three-year postdoctoral fellowship research to investigate iron requirements and iron metabolism in
infants. She used a randomised controlled trial in 6-month old infants to investigate iron absorption from infant formula, and to determine whether the mode of iron administration (supplementation vs. fortification) and the amount consumed (high intakes vs. low intakes) affect iron absorption, iron utilisation, and zinc absorption. She also used a population-based prospective cohort study to determine how early nutritional patterns in very low birth weight, extremely premature infants affect cognitive and behavioural development, growth, obesity, morbidity, and risk factors for cardiovascular disease.

In 2012 Ewa took up a teaching position in Human Nutrition at Deakin University, Australia.

**Francesca Crowe BSc, PhD**
Postdoctoral Fellow (Girdlers NZ HRC Fellow), Cancer Epidemiology Unit, University of Oxford, U.K.

Francesca is conducting research in the field of nutritional epidemiology where she is investigating the nutritional determinants of diseases such as cardiovascular disease and cancer. “Studying Human Nutrition at the University of Otago provided me with a comprehensive understanding of the field of nutritional and dietary assessment, which are fundamental to my work. I was also able to develop generic skills such as critical appraisal, statistical analysis, and communication when completing a PhD at the department of Human Nutrition.”

**Leanne Hodson BSc (Hons), PhD**
Research Fellow, University of Oxford, U.K.

Leanne works in a group that has an interest in human whole body integrative physiology with a specific interest in lipid metabolism and adipose tissue function. Her specific research studies involve the use of stable isotope and immunoaffinity techniques to study human metabolism.

**Victoria Morrow (nee Anderson) MSc**
After completing her Master’s Victoria spent four months in Dhaka, Bangladesh as a nutrition intern for Helen Keller International and during this time also volunteered at the nutritional rehabilitation unit at the ICDDR, B hospital. Following this she spent a month in Cambodia working on a project for Helen Keller International. Back in New Zealand she did some report writing for World Vision and part-time work in the Department of Human Nutrition.

Her next nutrition-related job was for HarvestPlus/IFPRI, leading a team of researchers in rural Uganda. This project was to validate the 24-hour recall for the assessment of vitamin A intake of women of childbearing age and children aged 2-5 years. Victoria then worked at University College London as a research associate on the ‘DietCompLyf’ Study a prospective study to investigate the links between diet and lifestyle and breast cancer recurrence.

Since returning to New Zealand Victoria has worked as a Health Promoter in the Waimakariri District and for the Heart Foundation in Christchurch; she then relocated to Mid-Canterbury and began working for Community and Public Health – a division of the Canterbury District Health Board - as a Health Promoter. As well as nutrition promotion her role includes promotion of smokefree environments, physical activity, and mental health in a range of settings including schools and workplaces.

**Penelope Fitzgerald BA (Canterbury), BSc, MSc (Otago)**
Research Officer in the Centre of Clinical Research Excellence (CCRE) in Nutritional Physiology, Discipline of Medicine, University of Adelaide

“After returning to university as a somewhat ‘mature’ student to study Human Nutrition I was at the beginning unsure of what avenue I wanted to take. After taking HUNT 312 there was
no question that research was where I wanted to be. To always be asking questions and
endeavouring to answer them – Discovery – what could be more exciting? My MSc research
project was a randomised controlled trial aimed at looking for an effect of iodine
supplementation on cognition in mildly iodine deficient young adults. Carrying out a research
project and writing a thesis has taught me many valuable skills – time management, scientific
writing, recruitment, database management, blood handling, and realising that like anything in
life, with research sometimes you just have to go with the flow! The skills I developed during
my MSc degree in Human Nutrition, and my continued passion for learning and discovery, I
believe, allowed me to obtain my current position before I had even handed in my thesis! My
work in the CCRE is primarily assisting a PhD student in completing all her studies. The
studies we are currently running are investigating the effects of varying protein loads on
gastric emptying, antrypyloroduodenal pressures, gut hormones, appetite sensations, and
subsequent energy intake in healthy lean and obese males. I will also be assisting another
post-doctoral fellow in similar studies, but in healthy lean elderly and malnourished elderly
people. Everyday I’m using the skills I obtained during my MSc in Human Nutrition, and
learning new ones including ultrasound, manometry – a technique involving inserting a tube
into the duodenum via the nose, venepuncture, and cannulation”.

Jamie Wan BSc, PGDipDiet
After graduating with a PGDipDiet, Jamie secured a position at North Shore Hospital as a
Clinical and Foodservice Liaison Dietitian. This allowed her to build on both the clinical and
foodservice experiences that she gained at Otago. Her qualifications have taken her around
the world and she is currently working for a large foodservice company in the UK, looking
after a three-hospital contract where she is responsible for menu development, training
foodservice staff and managing a team of cooks who produce special meals for patients.
Through this role Jamie was seconded to the management team catering for athletes at the
London 2012 Olympics.

“The teaching staff at Otago are incredibly knowledgeable, supportive, and provided helpful
guidance to me during my studies. Hands on practical experiences such as taking over the
kitchen operation for a dinner service gave me an insight into what it takes to run a catering
operation. I really enjoyed my time there and have found that my studies have provided me
with a solid foundation for working in the ‘real world’.”

Agnes Tey BCApSc (Human Nutrition and Consumer Food Science), MSc, PhD
Research Fellow, Singapore Institute for Clinical Sciences, A*STAR
Agnes first enrolled in the Foundation Year Certificate in Health Sciences in 2002 and
completed her PhD in Human Nutrition in 2012. During her years at Otago Agnes gained
extensive experience conducting randomised controlled trials investigating the effects of
incorporating nuts into the usual diet on risk factors for cardiovascular disease in various
population groups including the general population, those at risk of cardiovascular disease,
overweight and obese subjects, and Māori. She also carried out several sensory and consumer
research projects in the areas of taste sensitivities, sensory-specific satiety, and consumers’
acceptance for various foods and beverages. After the completion of her PhD Agnes worked
for eighteen months as an Assistant Research Fellow in the Department of Human Nutrition.
She has recently taken up a position as Research Fellow at A*STAR in Singapore where she
will be designing studies and applying for grants to fund interventions to try to reduce
metabolic syndrome in Asians.
APPENDIX A: PROGRESS THROUGH MSc THESIS

**Semester I**
Prescribed courses
Identify thesis topic

**Semester II**
Prescribed courses
Thesis proposal and budget
Departmental seminar of proposal

**Summer**
Method development; subject recruitment; data collection
Literature review

**Semester III**
Data collection
Methods
Write methods section

**Semester IV**
Statistical analyses
Write thesis

**Summer**
Departmental seminar of thesis results
Revise thesis and submit thesis to examiners

APPENDIX B: REQUIREMENTS FOR HUNT 495

(a) A supervisor (organised as early as possible in Semester 1)
(b) Assessment by at least one independent academic staff member and the Postgraduate Coordinator (or equivalent).
(c) Preliminary proposal (end of Semester 2)
   The proposal is due the last day of classes in Semester 2. Two copies of the proposal must be handed in to the Postgraduate Coordinator.
(d) Oral presentation (Semester 2)
   The date of the seminar presentation is organised in consultation with the Postgraduate Coordinator.
(e) A grade at the end of the paper (the mark will count towards scholarship assessment).
   The proposal and the oral presentation to be marked by the student’s supervisor and at least one other academic staff member.

Workload – 20 points (200 hours, i.e. approx 7-8 hours/week)

Additional requirements:
(a) Departmental seminars – attendance mandatory
(b) Health and safety – technical instruction mandatory
(c) Progress on literature review
(d) Preliminary project work – planning, subject recruitment, data collection
APPENDIX C: COMPUTER COMPETENCIES

(a) The Apple Macintosh and/or Microsoft Windows operating systems including the use of folders/directories; copying, moving, deleting files; and printing.
(b) Microsoft Word.
(c) Microsoft Excel, including generation of simple graphs and charts.
(d) Microsoft PowerPoint.
(e) The use of email.
(f) The use of an Internet browser.
(g) The use of a comprehensive statistical programme such as SPSS, SAS or STATA in the PC, Mac, or mainframe environment.
(h) Use of library databases and search engines to do literature searches.
(i) Endnote, an application to keep track of references and to automate bibliographic formatting of papers.
(j) Acrobat Reader, used to read PDF files.

APPENDIX D: SUGGESTED ELECTIVE COURSES FOR MSc OR PhD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HASC 413</td>
<td>Biostatistics</td>
<td>15 pts</td>
</tr>
<tr>
<td>PUBH 721</td>
<td>Advanced Epidemiology</td>
<td>15 pts</td>
</tr>
<tr>
<td>PUBH 701</td>
<td>Epidemiology and Biostatistics</td>
<td>30 pts</td>
</tr>
<tr>
<td>PUBH 702</td>
<td>Society, Health and Public Policy</td>
<td>30 pts</td>
</tr>
<tr>
<td>PUBH 703</td>
<td>Health and Environment</td>
<td>30 pts</td>
</tr>
<tr>
<td>PUBH 704</td>
<td>Health Economics</td>
<td>30 pts</td>
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<tr>
<td>PUBH 705</td>
<td>Health Promotion</td>
<td>30 pts</td>
</tr>
<tr>
<td>PUBH 706</td>
<td>Health Systems</td>
<td>30 pts</td>
</tr>
<tr>
<td>PUBH 707</td>
<td>Special Topic</td>
<td>30 pts</td>
</tr>
<tr>
<td>PUBH 708</td>
<td>Social Research Methods</td>
<td>30 pts</td>
</tr>
<tr>
<td>PUBH 709</td>
<td>Hauora - Maori Health Issues</td>
<td>30 pts</td>
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</tbody>
</table>
APPENDIX E: REPORT GUIDELINES

HUNT455 Special topic
Semester 1 or semester 2, 20 points

The literature review must be on a topic which is currently being investigated within the Department and for which appropriate supervision is available. The topic must be manageable within a 20 point paper, as a guideline requiring 20-40 references.

Note: the topic must be different to that of an MSc or HUNT485 project being undertaken by the student.

Content and length of the report
An in-depth evaluative literature review of 5,000-10,000 words in the main body (15-30 typed pages, double spacing).

Format of the report
Abstract
Acknowledgments
Table of contents
Main body
  Introduction
  Methods of the literature search
  Review of the relevant research literature: author must demonstrate some critical appraisal of the theoretical and methodological issues related to the problem
  Conclusions and Recommendations
References

The report is to be submitted by 7th June (if semester 1) or 31st October (if semester 2). The supervisor and one other staff member will mark the work.

Marking guide

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Marks</th>
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<tbody>
<tr>
<td>Abstract</td>
<td>Free-form abstract of 150-250 words.</td>
<td>5%</td>
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<tr>
<td>Introduction</td>
<td>Provide a good background to the lit review.</td>
<td>10%</td>
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<tr>
<td>Search methods</td>
<td>Clear and precise description of the terms, databases and other methodology.</td>
<td>10%</td>
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<tr>
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<td>Review Appropriately detailed and comprehensive. Demonstrate good understanding and ability to critically appraise the body of literature.</td>
<td>50%</td>
</tr>
<tr>
<td>Discussion</td>
<td>Provide a well-balanced summary on which to base implications and recommendations; and a succinct concluding paragraph.</td>
<td>10%</td>
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<tr>
<td>References</td>
<td>Of a style that enables the reader to efficiently source the article or other style of document if required.</td>
<td>5%</td>
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<tr>
<td>Writing</td>
<td>Marks for spelling, grammar, logic, flow, scientific style, conciseness, explanation of abbreviations, lack of jargon.</td>
<td>10%</td>
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</table>
HUNT485 Research project
Full year paper, 20 points

The project may be original research, secondary analysis of previously collected data, or a systematic review of published work on a specific topic. The student works independently, supported by regular meetings with a supervisor. The scale of the project should be agreed with the supervisor to ensure that the work will occupy no more than one-sixth of the student’s study time commitment over the year. If a systematic review is undertaken it must be on a topic which is currently being investigated within the Department and for which appropriate supervision is available.

Note: the topic must be different to that of an MSc project being undertaken by the student.

Content and length of the research report
A report of 5,000-10,000 words in the main body (15-30 typed pages, double spacing) or in consultation with the supervisor the report may be written up as a draft manuscript.

Format of the report
Abstract
Acknowledgments
Table of contents

Main body
   Introduction (1-2 pages)
   Methods
   Results
   Discussion (5-7 pages)
   Conclusions and Recommendations
References

The dissertation is to be submitted by 31st October. The supervisor and one other staff member will mark the work.

Marking guide (see HUNT490 following)
HUNT490 Dissertation
Full year paper, 40 points

A supervised project of original research. The student works independently, supported by regular meetings with a supervisor, to complete a piece of original research and to write it up in the form of a dissertation. The scale of the project should be agreed with the supervisor to ensure that the work will occupy no more than one-third of a student’s study time commitment over the year.

Note: the topic must be different to that of an MSc project being undertaken by the student.

Content and length of the dissertation
A report of 10,000-15,000 words in the main body (30-50 typed pages, double spacing) or in consultation with the supervisor the report may be written up as a draft manuscript.

Format of the dissertation
Abstract
Acknowledgments
Table of contents
Main body
  Introduction (1-2 pages)
  Methods
  Results
  Discussion (5-7 pages)
  Conclusions and Recommendations
References

The dissertation is to be submitted by 31st October. The supervisor and one other staff member will mark the work.

Marking guide (HUNT485 and HUNT490)

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<th>Component</th>
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<tr>
<td>Abstract</td>
<td>250-300 word free form abstract.</td>
<td>5%</td>
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<tr>
<td>Introduction</td>
<td>Provide a good background to the topic; briefly discuss published work; identify gap in literature and develop a reasoned rationale for undertaking the project.</td>
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<tr>
<td>Methods</td>
<td>Clear and precise description of the project in sufficient detail that the reader could replicate the study.</td>
<td>10%</td>
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<tr>
<td>Results</td>
<td>Present the main outcomes in logical sequence. Text and Tables/_figures complement without data duplication. Use appropriate statistics and clearly denote differences for quantitative data.</td>
<td>40%</td>
</tr>
<tr>
<td>Discussion</td>
<td>Provide a summary of the main outcomes. Discuss the findings in the context of published literature with reference to the gap in knowledge identified in the Introduction. Demonstrate original thought in discussing the implications of the work. Identify strengths and weaknesses of the study. Provided balanced concluding remarks and recommendations.</td>
<td>20%</td>
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<tr>
<td>References</td>
<td>Of a style that enables the reader to efficiently source the article or other style of document if required.</td>
<td>5%</td>
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<tr>
<td>Writing</td>
<td>Marks for spelling, grammar, logic, flow, scientific style, conciseness, explanation of abbreviations, lack of jargon.</td>
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HUNT 495 (MSc Thesis Preparation)

This paper involves:
- Preliminary reading on the research topic
- Preparation of an outline of the literature review
- Development of a research protocol
- Presentation of a proposal seminar to staff and students in the Department.
- Students are also required to attend the Department of Human Nutrition weekly seminar series.

Satisfactory completion of HUNT 495 involves:
- Outline of your literature review 20%
- Submission of a substantive piece of written work as directed by your supervisor. For example, this might be a portion of the literature review, an ethics application or the methods. 40%
- Presentation in the Departmental Seminar Series outlining the proposed project. 40%

The seminar presentation must be appropriate in terms of scope of the research question, time limitations, availability of subjects (where appropriate), equipment, and cost to ensure completion within the period allotted for the MSc degree requirements. It should cover three aspects:
1. the reason for conducting this research; ie a background,
2. the research proposal itself
3. your part in the project.

Marking
Marking of the literature review outline and the substantive piece of work will be undertaken by the supervisor and another academic in the Department. Staff members sitting in the audience will assess your seminar presentations.

Dates
You may start on your tasks immediately. The outline of the literature review must be handed in by 7th June. The seminar presentation may be undertaken throughout the year but it is normally given in the second semester. Ask your supervisor to arrange a date with the seminar coordinator. The substantive piece of written work must be handed in by 31st October.

It is NOT recommended that you leave the HUNT495 assessments until the last date. You should discuss your workload and research plan with your supervisor as soon as possible and draft a timeline for your HUNT495 assessments.

Marking guide
You will be given an example “Outline of the literature review” on which to base this aspect of the work.
Given that the “Substantive piece of written work” could be a number of things, it is not possible to give a marking guide. Discuss this work closely with your supervisor.
Seminar presentation

Oral Presentation Evaluation Form: Page 1/2

Name: ________________________________

Topic: ________________________________

A. Content (each section marked out of 15)

1. Introduction

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2. Content selected

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<td>Suited to audience and to time available. Interesting and clearly explained. Treated in some depth.</td>
<td>Attempted too many ideas in time. Confused and/or superficial.</td>
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3. Visual Aids (if appropriate)

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<td>Are effective in enhancing talk, help understanding. Overheads are easy to read, not crowded with information. Took enough time to explain them.</td>
<td>Does not add much to report. Poor choice. Shown too quickly. Overheads cluttered. Printing too small. Not well explained.</td>
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4. Summary

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<td>Concludes abruptly without summarizing main points. Does not place what was presented into context.</td>
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5. Understanding of Subject

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Comments on content:
B. Delivery (each section marked out of 5)

6. Audience Contact

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7. Voice and Language

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<td>7</td>
<td>Voice can be heard easily. Ton of voice varied.</td>
<td>Hard to hear. Monotonous voice. Poor pronunciation. Raises voice at end of statements. Reads text. Interjects “um” &amp; “ok”.</td>
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<td>Good diction. Does not raise voice. Uses notes, but does not read.</td>
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8. Postures and Gestures

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<td>8</td>
<td>Relaxed posture and mannerisms not distracting.</td>
<td>Tense, stiff, and displays mannerisms which detract.</td>
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9. Timing

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<tr>
<td>9</td>
<td>Pacing good.</td>
<td>Rushed at end.</td>
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10. Level/Style of Presentation

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<tr>
<td>10</td>
<td>Appropriate for audience</td>
<td>Either too formal or informal for occasion and type of presentation.</td>
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Comments on Delivery:

Total marks / 100