University of Guelph Department of Family Studies and Applied Nutrition

Final Project in Applied Human Nutrition FRAN*6750 Fall 2013, Winter & Spring 2014

Course Outline

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Course Description

The purpose of this course is to prepare students to participate in applied implementation research related to dietetic services in public health, social services and clinical contexts. Students will be exposed to a number of approaches and will develop selected research skills for practice contexts. The course is centered on a research project to be completed over the course of the program. The course will review the research process, including report writing, and provide support for the student participating in an applied research project.

The Final Project

The nature of the project **may vary and can include** the following:

- Quality assurance review or audit
- Development of a research proposal with literature review
- Secondary data analysis
- Resource development and key informant review or pilot testing
- PEN project pathway development
- Needs assessment

The size and depth of the project will be constrained by the time available and will be developed in conjunction with the course advisor. Students will be expected to dedicate on average of 3-4 hours a week to the project over the course of 3 consecutive semesters.

End products of the course include a written project rationale, detailed methods and timeline, abstract and final report as well as an oral and poster presentation of the applied research project before an audience of peers and community members.

The proposal for a research project includes literature review, purpose, methodology, analysis or analysis plan, a proposed timeline and budget.

The final written report includes a literature review, purpose, methodology, results and discussion of a small research project that the student has completed (20 double spaced pages). Everyone will need to do a final written report. Students who want to submit a manuscript for publication in lieu of the report may do so, but must consult with the course instructor for the key elements that must be in the report. For example, in a multi-author manuscript the student would

independently write and submit a substantive literature review on the manuscript topic along with a discussion of methodology and data analysis. The appendix of the report must include the manuscript submitted for publication.

Student Objectives

To complete this course the student will:

- Identify an applied research project related to dietetic practice, in collaboration with the MAN program coordinator, instructor, AHN faculty member and the supervisor of a practicum if appropriate;
- Present an outline for the research project to peers
- Complete an application to the Research Ethics Board, if required
- Implement part, or all, of the applied research project (various options noted above)
- Write a report on the applied research project, including at least a review of the literature, discussion of methodology, design and data analysis. Depending on the nature of the project other elements as noted above in the Final Project section must be included.
- Write abstract of the project in advance of the oral presentation
- Design and present a research poster to peers and invited guests
- Present an oral presentation to peers and invited guests

Proposed Course Timeline (see syllabus)

Fall term: class meetings will be on Mondays at 2:30 MINS 101 September:

- Meeting with mentor to identify project
- Start looking into methods
- Create plan

October:

- Work on methods/GANTT hand in for review
- Complete TCPS2: CORE Online Tutorial
- Work on activities assigned by project supervisor

November

Present research proposal to colleagues; write- up

Fall Exam Period (December)

- Work on activities assigned by project supervisor
- REB submitted

January-March:

Finalize research and implementation plans with advisor

May-June:

Attend presentation on how to create a research abstract and poster (early June)

Mid-July:

- Presentation of research to class. Placement supervisors are invited to attend presentation.
- Actively participate in research poster presentation session
 The abstract is due 10 days before the presentation date, so that project titles and descriptions can be distributed to the invited guests.

August (1st week):

Written research reports are submitted to project supervisor and course instructor.

Suggested Resources General

IHI Open School. IHI Open School Certificate of Completion- Basic Level. http://www.ihi.org/offerings/IHIOpenSchool/Pages/default.aspx

Dietitians of Canada: Resources about dietetic research: http://www.dietitians.ca/Knowledge-Center/Nutrition-Research-CINDAR.aspx

University of Guelph, Office of Research: http://www.uoguelph.ca/research/

Panel on Research Ethics. TCPS 2: CORE — Tutorial. http://tcps2core.ca/welcome

Writing your research proposal: A workbook for first time and inexperienced researchers in the social science and humanities

By: Craig Higson-Smith with contributions from Julie Parle, Lis Lange and Ann Tothill http://nusrlmethods2012.files.wordpress.com/2012/01/researchproposal0305.pdf

Textbooks on Applied Research

Improving Patient Care: The Implementation of Change in Health Care, 2nd Edition Richard Grol (Editor), Michel Wensing (Editor), Martin Eccles (Editor), David Davis (Editor) ISBN: 978-0-470-67338-6. Wiley, 2013.

NIH. Health Services Research Information Central - Dissemination and Implementation Science. http://www.nlm.nih.gov/hsrinfo/implementation_science.html

Dissemination and Implementation Research in Health: Translating Science to Practice. Ross C. Brownson (Editor), Graham A. Colditz (Editor), Enola K. Proctor (Editor). Oxford University Press, 2012.

Knowledge Translation in Health Care: Moving from Evidence to Practice. Sharon Straus (Editor), Jacqueline Tetroe (Editor), Ian D. Graham (Editor). BMJ Books, 2009 (2nd ed coming)

Survey Methods

Dillman, Don A., Smyth, Jolene D.; Christian, Leah Melani. Internet, mail, and mixed-mode surveys: the tailored design method, 3rd ed. Hoboken, N.J.: Wiley & Sons c2009. Available at University of Guelph Library Guelph McLaughlin Book Stacks (HM538 .D55 2009)

CPHA. Guide to Improved Data Collection in Health & Health Care Surveys (2012) Guide to Questionnaire Construction and Question Writing (2012). Ottawa: Canadian Public Health Association. (14.95 each) http://publications.cpha.ca/collections/all/english+cpha

Willis G. Cognitive Interviewing: A "How To" Guide. http://fog.its.uiowa.edu/~c07b209/interview.pdf

Basic Qualitative Analysis

Daly, K. J. (2007). Qualitative methods for family studies and human development. Thousand Oaks, CA: SAGE Publications.

Green, J., & Thorogood N. (2009). Qualitative methods for health research. London, UK: SAGE Publications.

Braun, V and Clarke, V. (2006) Using thematic analysis in psychology. Qualitative Research in Psychology, 3: 2, 77 — 101.

Saldaña, Johnny. The coding manual for qualitative researchers, 2nd ed. London; Thousand Oaks, Calif.: SAGE 2013 (H62 .S343 2013)

Delphi, Nominal Group

Gilmore, Gary D. Needs and capacity assessment strategies for health education and health promotion 4th ed. Burlington, MA: Jones & Bartlett Learning c2012.

Available at University of Waterloo Library UW Davis. Book Stacks. Main Floor (RA440.4 .G55 2012)

Additional references may be added to Courselink later, depending on student projects.

Method of Evaluation

Assignment 1 – data analysis –separate document	marked
Formal research proposal Nov 25 th presentation	10%
TCPS2: CORE Online Tutorial	5%
Research proposal – Dec	15%
Research poster & poster presentation	10%
Research presentation (~20 min in July)	10%
Abstract	5%
Written research report	25%
Effort/Progress throughout project (assessed by faculty advisor)	20%

Administration

E-mail Communication

As per university regulations, all students are required to check their <uoguelph.ca> e-mail account regularly: e-mail is the official route of communication between the University and its students.

When You Cannot Meet a Course Requirement

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course in writing, with your name, id#, and e-mail contact. See the graduate calendar for information on regulations and procedures for Academic Consideration:

http://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/sec_d0e1400.shtml

Drop Date

The last date to drop one-semester courses, without academic penalty, is DATE HERE. Two-semester courses must be dropped by the last day of the add period in the second semester. Refer

to the Graduate Calendar for the schedule of dates:

http://www.uoguelph.ca/registrar/calendars/graduate/current/sched/sched-dates-f10.shtml

Academic Misconduct

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community – faculty, staff, and students – to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection. The Academic Misconduct Policy is detailed in the Graduate Calendar:

http://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/sec_d0e1687.shtml

Recording of Materials

Presentations which are made in relation to course work—including lectures—cannot be recorded in any electronic media without the permission of the presenter, whether the instructor, a classmate or guest lecturer.

Resources

The Graduate Calendar is the source of information about the University of Guelph's procedures, policies and regulations which apply to graduate programs: http://www.uoguelph.ca/registrar/calendars/graduate/current/

Research Proposal Outline - (10-15 pages)

Depending on the type of research you are engaged in this outline may need to change

- 1. Title
- 2. Introduction
 - a) Statement of problem
- 3. Background (review of research relevant to research)
- 4. Rationale for the research
- 5. Objectives or hypothesis
- 6. Methods
 - a) Study design (type, procedures etc)
 - b) Participants (selection, recruitment plans)
 - c) Measurements (describe tools to be used, identify variables)
- 7. Timeline (Gantt chart)
- 8. Budget
- 9. References

Outline for the Final Research Report (20-25 pages)

- 1. Title Page
- 2. Abstract (copy of document submitted before presentation)
- 3. Introduction
 - a) Introduce the scope of the project; provide brief background on the issue(s) at hand
- 4. Literature Review
 - a) Critical review of the research literature that spawned the research. Materials should be obtained by library research. Original research studies should be the source of

information although one or two general or review articles may be used to provide an overview. As a general guide, use a 1:10 ratio of text or review articles to reports of original research.

- b) Statement of research question and objectives
- 5. Methods
 - a) Study design (type, procedures etc)
 - b) Participants (selection, success of recruitment plans)
 - c) Measurements (describe tools used, variables)
- 6. Results (if applicable)
- 7. Discussion
 - a) Limitations of the research
 - b) Implications for practice
 - c) Recommendations (if applicable)
- 8. Conclusion
- 9. Formatting
 - <u>References APA style:</u> In the text, references should be cited by name, e.g. (Smith, 1985; or, Smith et al, 1992); and appear in the reference list in alphabetical order in the APA style.
 - <u>Length:</u> the report should be 15 to 20 pages, excluding references and any tables or figures.
 - Formatting: 1.5 spacing and 11 point Arial font, 2.54 cm L & R margins; 2.0 cm top & bottom margins
 - The file naming convention: StudentName_assignment name.pdf

Research Proposal and Final Report Evaluation Forms

Name: Total: /100

Λ I		
A. Introduction	2.5	1
5	2.5	1
Introduced the scope of the project; composed of relevant information;	Provided some idea of the project's scope; Some information presented	Scope of the project was not well outlined; information presented was not relevant;
grabbed the reader's attention	was not relevant; engaged the reader somewhat	did not grab reader's attention
Comments:		
B. Study Objective or Hypothes	sis	
10	5	1
Objective was clearly stated;	Objective was not stated in terms	Objective was stated in terms that too
Aspects of problem were narrow	specific enough to define limits of	broad, abstract or vague and problem was
enough for analysis in some depth.	problem and tended to be somewhat	not adequately defined
Hypothesis had links to the	broad.	Hypothesis did not link to the literature;
literature and identified at least two	Hypothesis had links to literature	variables were not clearly identified;
measurable variables; was phrased	that were somewhat clear; second	statement could not be refuted
so that it can be refuted	measurable variable not identified	
Comments:		
C. Literature Review	1	· · · · · · · · · · · · · · · · · · ·
35	17.5	1
Structure of the literature review	Structured fairly well in relation to	The review was poorly structured in
reflected the scope of the topic;	the topic; breath of coverage was	relation to the topic; very little of it related
showed some breadth of coverage of	too great; wandered from the topic	to the objective or purpose; ideas presented
the topic as well as depth;	or was too narrow in view;	are not well researched, documented or
assessment of the literature was	assessment of the literature was not	argued
clear; ideas were well researched,	always clearly evident; ideas were	
document and argued.	reasonably well researched,	
	documented and argued	
Comments:		

D. Study Design		
D. Study Design	7.5	1
		Ctude design did not some of the since C
Demonstrated how the specific aims	Relationship between study design	Study design did not support the aims of
of study could be meet with the	and objectives was not totally clear;	the study; rational presented did not
design; rationale for the design was	rational was somewhat supportive	support the study design; subject selection
clear; subject selection criteria were	of the design; subject selection was	was not justified
well thought out and justified	fairly well justified	
Comments:		
E. Methodology		
15	7.5	1
Clearly presented, well thought out	Fairly well presented and thought	Systematic justification was lacking;
and researched; supported by the	out; had some support from the	potential problems were not addressed and
literature; foreseeable problems	literature; some potential problems	data analysis was not supported by literature
addressed (i.e. attrition) and analysis	not addressed and analysis of data	
of data was justified	needed more support	
Comments:		
F. Organization and Presentatio	n	
10	5	1
Key terms and acronyms were	Most terms and acronyms were	Many terms and acronyms were not
defined; presentation of information	defined; presentation of	defined; no clear evidence of a systematic
was systematic with subheadings;	information was somewhat	presentation of information; subheadings
	information was somewhat systematic; clarity of expression-	presentation of information; subheadings not used or were not used well; clarity of
was systematic with subheadings;		
was systematic with subheadings; clarity of expression-economical use	systematic; clarity of expression-	not used or were not used well; clarity of
was systematic with subheadings; clarity of expression-economical use of words, and transitions; graphs,	systematic; clarity of expression- text was comprehensible, needs changes to increase flow and	not used or were not used well; clarity of expression-text was hard to understand, repetitive or unclear; visuals did not connect
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Oral Evaluation

2.5

☐ The speaker attempts to gain the

audience's attention and

☐ The guiding research question

not clearly stated

and purpose of presentation are

☐ The speaker does not gain the

does not support study

audience's attention and interest.☐ The guiding research question are

purpose of presentation are not stated

Background literature not presented/

Name: Total: /30

interest.

Introduction / Background 5

☐ Gains the audience's

presentation

attention and interest.

☐ Clearly states the purpose of

States the research question

The speaker:

	literature to support study		Background does not fully support the study The speaker does not fully establish the significance of topic for the audience	The significance of topic is not established for the audience
Con	nments:			
B.	Content, Organization and Timing	<u> </u>		
	10		5	1
	Clearly presents each step of research process undertaken The level of detail is appropriate for the audience The speaker uses relevant and specific supporting material to substantiate main points The speaker cites the source of the evidence The presentation of information is cohesive, logical and sequential Uses time appropriately and finishes within time limits		Steps of research not clearly presented Level of detail was somewhat appropriate for the audience The speaker uses somewhat relevant supporting material to substantiate main points The speaker does not cite all the source of the evidence The presentation of information is not completely cohesive logical and sequential Uses time appropriately and finishes < 90 s over time limit	Steps of research not presented Level of detail was not appropriate for the audience The speaker does not use supporting material to substantiate main points The speaker does not cite any the source of the evidence The presentation is difficult to follow flow of information is not logical Did not use time appropriately and finishes > 90 s over time limit
Con	nments:			

C. Conclusion		
5	2.5	1
The speaker clearly signals the end of presentation □ The speaker restates the central idea □ The conclusions are stated as a persuasive argument to reinforce the final message □ The conclusions are concise Comments:	2.5 ☐ The speaker attempts to signal the end of presentation ☐ The speaker somewhat restates the central idea ☐ The conclusions are stated in a way that somewhat reinforces the final message ☐ The conclusions are relatively concise	The speaker did not signal the end of presentation □ The speaker did not restate the central idea □ The conclusions are not stated in a way that reinforces the final message □ The conclusions are not concise
D. Delivery and Visual Aids		
D. Delivery and visual Aids		1

D. Delivery and Visual Aids					
	10		5		1
	The speaker maintains strong		The speaker did not consistently		The speaker had poor eye contact with
	eye contact The speaker faces the audience while speaking (glances at		maintain eye contact. The speaker frequently faced the screen while speaking		audience. The speaker consistently faced the screen while speaking
	notes, not at the screen) Slide text is concise, having only a phrase or a few words		Text is somewhat concise, some slides have too much text The speaker uses appropriate		Text is not concise, most slides contain too much text The speaker did not use appropriate
	per line and slides did not contain excess text The speaker gestures appropriately and varies volume, pitch, and rate of voice The speaker provides smooth transitions Language is free from unexplained jargon and acronyms Zero to minimal use of verbal fillers		gestures most of the time and tries to vary volume, pitch, and rate of voice The speaker provides some transitions Language did have some unexplained jargon and acronyms Moderate level of verbal fillers, somewhat distracting		gestures or did not use gestures and did not vary volume, pitch, and rate of voice The speaker provides no transitions Language did contain many unexplained terms and acronyms High volume of verbal fillers, distracted from information presented
Co	Comments:				

10

Abstract (10 marks)

Title and Team information (2)

Title is clear, informative and not too long Full names of research team members noted with credentials and work place (not titles needed)

Introduction (2)

Why did you start the project? Research problem and rational presented concisely Key terms defined Enough background to set the stage for the reader

Methods (2)

What did you do? Procedures are discussed in an organized and concise manner Sampling plan and study design are outlined

Results (2)

What did you find? Clear presentation of data with appropriate statistics (if applicable) Findings are linked to the purpose of the research

Conclusion (2)

What does it all mean?
Logically connects results into a closing argument/ statement
Suggest further work (if applicable)
Provides meaning to work and a take home message

Research Poster & Poster Presentation Evaluation

Presentation Skills	Excellent (5)	Good (3)	Improvement Needed (1)
Speaker presents as confident and enthusiastic			
Presents research poster succinctly			
Answers questions precisely in a professional manor			
Maintains eye contact, uses vocal variety, no use of verbal fillers			
Poster Display			
Legible pictures, figures, legends Effective use of empty space			
Overall balance in composition; Font size, style and colour			
Total			