

COURSE OUTLINE		
TERM: Fall 2018	COURSE NO: MT 462	
INSTRUCTOR:	COURSE TITLE: Principles of Research	
OFFICE: LOCAL: E-MAIL:	SECTION NO:	CREDITS: 3.0
OFFICE HOURS:		
COURSE WEBSITE:		

Capilano University acknowledges with respect the Lil'wat, Musqueam, Squamish, Sechelt, and Tsleil-Waututh people on whose territories our campuses are located.

COURSE FORMAT

Three hours of class time, plus additional lab activities, for a 15-week semester, which includes two weeks for final exams.

COURSE PREREQUISITES

PSYC 101

CALENDAR DESCRIPTION

Students in this course will learn a variety of quantitative and qualitative methods of research and of analysis, and to understand the limits of interpretations based on such research and analysis. Students will be able to use and understand both qualitative and quantitative research methods, statistical analysis, and qualitative analysis, be able to conduct, analyze and present basic research, and use critical thinking in assessing the effectiveness and limitations of research.

COURSE NOTE

MT 462 is an approved Quantitative/Analytical course for baccalaureate degrees.
 MT 462 is an approved Capstone course for the Cap Core requirements.

REQUIRED READINGS

Cozby, P. C., & Rawn, C. D. (2016). *Methods in behavioural research (2nd Canadian ed.)*. Toronto, Ontario: McGraw-Hill Ryerson.

There will additional in-class readings, consisting of Music Therapy studies using the various research designs covered in the course. This reading list will be posted to the class Moodle page. Other required readings are indicated on the course schedule content schedule below.

RECOMMENDED READINGS

Creswell, J.W. (2012). Educational research: Planning, conducting, and evaluating quantitative and qualitative research (4th ed.). Upper Saddle River, NJ: Pearson. Chapters 2-4.

Wheeler, B. (Ed.). (2005). Music therapy research (2nd ed.). Gilsum, NH: Barcelona Publications.

COURSE STUDENT LEARNING OUTCOMES**On successful completion of this course, students will be able to do the following:**

Instructional:

- Apply (in exams, written assignments and original research) knowledge and understanding of current quantitative and qualitative research methods and statistics; concepts from the philosophy of science and the nature of scientific reasoning; an understanding of sampling and sampling error and of descriptive and inferential statistics; the appropriate use of the various research methods and statistics and the limitations of each method; and how statistics can be misunderstood or used incorrectly.
- Integrate in their course assignments research skills in conducting a literature review, and critical thinking, analytical and synthesis skills in evaluating the interpretations and limitations of research.
- Demonstrate their ability to understand, compute, and use quantitative methods of descriptive and inferential statistical analysis and the use of current statistical programs such as SPSS and Excel, as well as qualitative methods of analysis such as phenomenological or content analysis.
- Conduct, analyze, and present an original research study, and write a research report of their study in correct APA format.
- Communicate their critical analyses and applications in presentation and written formats.
- Complete both independent and cooperative assignments.

Students who complete this Capstone course will be able to do the following:

- Identify a topic of inquiry or practice.
- Gather and organize relevant research materials.
- Evaluate, synthesize, and apply research findings.
- Share findings or results in a means appropriate to a field of study.

COURSE CONTENT

Week	Reading/s	Topic / Work due
1	Cozby, Ch. 1	Scientific Understanding of Behaviour + Data collection lab
2	Cozby, Ch. 2 + 3	Where to Start + Ethical Research + TCPS 2 lab
3	Cozby, Ch. 4 + 5	Studying Behaviour + Measurement Concepts + Correlation lab
4		Mid-term 1
5	Cozby, Ch. 7	Quantitative Research Designs I: Survey Designs + Research topic/question/hypothesis lab

6	Cozby, Ch. 8 + 9	Quantitative Research Designs II: Experimental Designs + <i>t</i> test lab / Research topic & question/hypothesis/prediction due
7	Braun, V., & Clarke, V. (2006). Using thematic analysis in psychology. <i>Qualitative Research in Psychology</i> 3, 77-101.	Qualitative Research Designs I: Thematic Analysis / Ethnographic Designs / Mixed Methods Designs + Thematic analysis lab
8	Creswell, J. W., Hanson, W. E., Plano Clark, V. L., & Morales, A. (2007). Qualitative research designs: Selection and implementation. <i>The Counseling Psychologist</i> , 35(2), 236-264.	Qualitative Research Designs II: Phenomenological Designs / Grounded Theory Designs / Narrative Designs / Action Research Designs + Research Proposal lab / Research proposal due (including TCPS 2 tutorial certificate)
9		Mid-term 2 / Data collection class
10	Cozby, Ch. 12	Quantitative Data Analysis I: Understanding Research Results: Description and Correlation / Data collection class + Descriptive statistics and frequency distributions lab
11	Cozby, Ch. 13-14	Quantitative Data Analysis II: Understanding Research Results: Statistical Inference / Generalizing Results + ANOVA lab
12		Qualitative Data Analysis + Research report data analysis lab
13		Research Presentations
14-15	Final exam	

EVALUATION PROFILE

Professionalism*	10%	* including lab sessions
TCPS 2 tutorial.....	5%	
Mid-term 1.....	20%	
Mid-term 2.....	20%	
Final Exam.....	20%	
Research Proposal.....	5%	
Research Presentation.....	5%	
Research Report.....	15%	
TOTAL.....	100%	

ASSIGNMENTS:**Professionalism: 10%**

Professionalism includes punctuality, accountability and participation. Participation and attendance will help with all aspects of the course. Students must assume all responsibility for ensuring course and assignment coverage for the missed class.

Participation Criteria:

In general, the model of contribution will be that required in a committee in a business or other professional environment. In addition to full attendance, the assessment of participation will be based on multiple considerations of:

1. Effort to participate and frequency of commentary and contributions.
2. Relevance of the contributions to the topic of discussion.
3. Helping other group members and class members participate and answer their questions/concerns.
4. Avoiding interrupting others or dominating the discussion.
5. Full participation in all aspects of the group research report and presentations.

TCPS 2 Tutorial: 5%

Prior to conducting your research project, you must complete the TCPS 2 Ethics Tutorial. This is a tutorial for the Tri-Council Policy Statement (TCPS) on Ethical Conduct for Research Involving Humans. The tutorial is free, and takes approximately 2-3 hours to complete (and does not need to be completed in a single session). Attach a copy of your completion certificate to your research proposal document. No late submissions will be accepted for this assignment. All group members must complete the tutorial in order for the group to be able to proceed with their research projects. Keep a copy of the certificate for yourself; you may need this certificate again in future courses. Use this link: <http://tcps2core.ca/welcome>

Mid-term and final exams: 20% each = 60%

There will be two mid-terms, and a final exam, each worth 20% of the final grade. The tests will consist of questions based on the textbook, lecture material, classroom activities and videos.

Research Proposal: 5%

Working in small groups, you will write a research proposal, indicating your research question/hypothesis, planned research design, data collection, analyses, and research ethics application. Detailed information regarding the research proposal will be given in class.

Research presentation: 5%

Here, each group will present an overview of their research project, including each step of the process from the formulation of the hypothesis through to the discussion of the results and their potential implications. Detailed information about the research presentation will be given in class.

Research report: 15%

Each group will need to submit a research report about their study, including an abstract, introduction, methods, results, and discussion section, as well as relevant appendices. Further details will be given in class.

GRADING PROFILE

A+ = 90-100	B+ = 77-79	C+ = 67-69	D = 50-59
A = 85-89	B = 73-76	C = 63-66	F = 0-49
A- = 80-84	B- = 70-72	C- = 60-62	

INCOMPLETE GRADES

Grades of incomplete ("I") will be given only if there is an arrangement or a written request approved by the instructor prior to the last class in the course or the last week of class.

LATE ASSIGNMENTS

Marks will be deducted for the late submission of assignments. The penalty for the late submission of an assignment is .5 of a mark per day. After one week, late assignments will not be accepted.

MISSED EXAMS, QUIZZES, LABS, ETC

Students will be allowed to make-up exams and quizzes only under the following conditions: if a doctor's certificate of illness is provided; if, in the case of the death of a close family member, a death certificate is provided; if **prior** approval of the instructor has been obtained.

ATTENDANCE

Attendance is essential. Students missing more than two classes can expect a faculty review and may receive no credit.

ENGLISH USAGE

English usage must be clear and grammatically correct.

UNIVERSITY OPERATIONAL DETAILS**Tools for Success**

Many services are available to support student success for Capilano University students. A central navigation point for all services can be found at: <http://www.capilanou.ca/services/>

Capilano University Security: download the [CapU Mobile Safety App](#)

Policy Statement (S2009-06)

Capilano University has policies on Academic Appeals (including appeal of final grade), Student Conduct, Academic Integrity, Academic Probation and other educational issues. These and other policies are available on the University website.

Academic Integrity (S2017-05)

Any instance of academic dishonesty or breach of the standards of academic integrity is serious and students will be held accountable for their actions, whether acting alone or in a group. See policy S2017-05 for more information: <http://www.capilanou.ca/about/governance/policies/Policies/>

Violations of academic integrity, including dishonesty in assignments, examinations, or other academic performances, are prohibited and will be handled in accordance with the Student Academic Integrity Procedures.

Academic dishonesty is any act that breaches one or more of the principles of academic integrity. Acts of academic dishonesty may include but are not limited to the following types:

Cheating: Using or providing unauthorized aids, assistance or materials while preparing or completing assessments, or when completing practical work (in clinical, practicum, or lab settings), including but not limited to the following:

- Copying or attempting to copy the work of another during an assessment;
- Communicating work to another student during an examination;
- Using unauthorized aids, notes, or electronic devices or means during an examination;
- Unauthorized possession of an assessment or answer key; and/or,
- Submitting of a substantially similar assessment by two or more students, except in the case where such submission is specifically authorized by the instructor.

Fraud: Creation or use of falsified documents.

Misuse or misrepresentation of sources: Presenting source material in such a way as to distort its original purpose or implication(s); misattributing words, ideas, etc. to someone other than the original source; misrepresenting or manipulating research findings or data; and/or suppressing aspects of findings or data in order to present conclusions in a light other than the research, taken as a whole, would support.

Plagiarism: Presenting or submitting, as one's own work, the research, words, ideas, artistic imagery, arguments, calculations, illustrations, or diagrams of another person or persons without explicit or accurate citation or credit.

Self-Plagiarism: Submitting one's own work for credit in more than one course without the permission of the instructors, or re-submitting work, in whole or in part, for which credit has already been granted without permission of the instructors.

Prohibited Conduct: The following are examples of other conduct specifically prohibited:

- Taking unauthorized possession of the work of another student (for example, intercepting and removing such work from a photocopier or printer, or collecting the graded work of another student from a stack of papers);
- Falsifying one's own and/or other students' attendance in a course;
- Impersonating or allowing the impersonation of an individual;
- Modifying a graded assessment then submitting it for re-grading; or,

- Assisting or attempting to assist another person to commit any breach of academic integrity.

Sexual Violence and Misconduct

All Members of the University Community have the right to work, teach and study in an environment that is free from all forms of sexual violence and misconduct. Policy B401 defines sexual assault as follows:

Sexual assault is any form of sexual contact that occurs without ongoing and freely given consent, including the threat of sexual contact without consent. Sexual assault can be committed by a stranger, someone known to the survivor or an intimate partner.

Safety and security at the University are a priority and any form of sexual violence and misconduct will not be tolerated or condoned. The University expects all Students and Members of the University Community to abide by all laws and University policies, including [B.401 Sexual Violence and Misconduct Policy](#) and [B.401.1 Sexual Violence and Misconduct Procedure](#).

Emergencies: Students are expected to familiarise themselves with the emergency policies where appropriate and the emergency procedures posted on the wall of the classroom.

PROGRAM OPERATIONAL DETAILS

Program Continuance

Continuance in the Music Therapy program is contingent upon a successful level of completion in academic, clinical and personal areas, as jointly assessed by faculty each term. Consult the Coordinator or the Student Handbook for more information.