



CAPILANO UNIVERSITY

COURSE OUTLINE		
TERM: Fall 2022	COURSE: ABA 312	
INSTRUCTOR:	COURSE TITLE: Single Subject Research Design and Statistics	
OFFICE: LOCAL: E-MAIL: @capilanou.ca	SECTION NO(S):	CREDITS: 3
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 an additional hour delivered through on-line or other activities for a 15-week semester, which includes two weeks for final exams.

CALENDAR DESCRIPTION

This research methods course focuses on procedures and issues related to the design, interpretation, and analysis of single subject research, also referred to as small N research. It covers general methodological information as well as specific details about single subject methods in applied settings.

COURSE NOTE

ABA 312 is an approved Quantitative/Analytical course for baccalaureate degrees.

ABA 312 is an approved Numeracy course for Cap Core requirements.

REQUIRED TEXTS AND/OR RESOURCES

- 1) Richards, S.B. (2019). *Single subject research: Applications in educational settings*. Boston, MA: Cengage.
- 2) CBA Learning Module Series, Version 9, from Behavior Development Solutions (www.behaviordevelopmentsolutions.com). Additional information will be provided to students during the program orientation.

COURSE STUDENT LEARNING OUTCOMES

On successful completion of this course, students will be able to do the following:

- Describe the design and application of single subject research procedures to address research questions and issues in the fields of applied behaviour analysis, special education, counselling and clinical psychology, speech and language pathology, and other disciplines in which research on small samples and single subjects is relevant and productive.
- Evaluate and critique single subject research studies for methodological soundness.

- Analyze and interpret data collected with single subject research procedures.
- Describe basic methodological issues and solutions related to the use of single subject designs in applied settings.

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

- Apply both analytical and numerical skills to solve problems.
- Summarize and analyze data in quantitative forms.
- Interpret and draw conclusions from an analysis of quantitative data.
- Represent quantitative information in a variety of forms (e.g., symbolically, visually, numerically, and verbally).
- Incorporate quantitative evidence in support of an argument.

COURSE CONTENT

WEEK	TOPIC	READINGS	ASSIGNMENTS DUE
1	Introduction to the course and eLearn	Chapters 1&4	CBA: C-00, D-02, D-03
2	Overview of Single Subject Research Design	Chapter 3	CBA: C-01
3	Methods for Recording Behaviours	Chapter 10	CBA: C-11, D-04
4	Analyzing Results	Chapter 6	CBA: D-05, parts 1 & 2
5	Withdrawal Designs		
6	Withdrawal Designs: Visual Analysis Activities		
7	Midterm Exam		
8	Multiple Baseline Designs	Chapter 8	CBA: D-05, part 6 Visual Analysis: WD
9	Multiple Baseline Designs: Visual Analysis Activities		
10	Changing Condition Designs and Changing Criterion Designs	Chapter 7	CBA: C-06, D-05, part 5 Visual Analysis: MBD
11	Changing Criterion Designs: Visual Analysis Activities		
12	Alternating Treatments Designs	Chapter 9	CBA: D-05, parts 3 & 4 Visual Analysis: CC
13	Alternating Treatment Designs: Visual Analysis Activities Visual Analysis Activities		Visual Analysis: ATD
14&15	Final Exam Period		

EVALUATION PROFILE

Check in/Check out Activity	5%
Reading Quizzes	10%
Active Student Responding	10%
CBA Modules	15%
Visual Analysis Activities	25%
Midterm Exam	15%
Final Exam	20%
	100%

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" are assigned only in exceptional circumstances when a student requests extra time to complete their coursework. Such agreements are made only at the request of the student, who is responsible to determine from the instructor the outstanding requirements of the course.

Late Assignments

Due dates for assignments are listed in the course content table. All assignments must be submitted directly to the instructor (or online, if directed) at the beginning of the class period. Late papers will be penalized 5% per day for up to one week. No assignments will be accepted later than one week except under exceptional circumstances (e.g., death in the family, etc.). Under exceptional circumstances (e.g., prolonged illness), assignment extensions may be granted; students who anticipate the need for an extension should request one at least 48 hours prior to the due date.

Missed Exams/Quizzes/Labs etc.

Make-up exams are given only in exceptional circumstances and with prior notice to the instructor. A penalty of up to 20% will be levied on those make-up exams when granted. Submissions for waiver of late penalties for exceptional circumstances may be presented, in writing, with the appropriate documentation, to the instructor.

Attendance

The ABA program is considered a professional program in that it meets the academic requirements for Board Certified Assistant Behavior Analyst (BCaBA) certification. As part of your professional training, you are expected to treat class meetings as you would client meetings. This means attending all class lectures, being on time, being prepared, and participating in activities just as you would be for a client meeting. Absences may be excused by the instructor on a case-by-case basis, but only if notice is provided well in advance of class time and the absence has been approved before class begins. Medical notes may be required.

English Usage

University level writing skills are required in all assignments. American Psychology Association (APA) writing guidelines, including the use of non-sexist language, must be followed. All assignments must be original and must be used for this course only. It is recommended that students keep copies of all drafts, including copies on an external drive labelled "Draft1," "Draft2," etc. Students are expected to proofread all written work for any grammatical, spelling, and stylistic errors. Instructors may deduct marks for incorrect grammar and spelling in written assignments.

Electronic Devices

During Exams: No personal electronic devices (cell phones, tablets, laptops, pagers, calculators, electronic dictionaries, etc.) may be used during an examination without prior approval from the instructor. During an exam, turn off all cell phones and pagers and remove them from the desk.

During Class: No personal electronic devices (cell phones, tablets, laptops) may be used during class. Cell phones must be turned off and put away. Handout packages and assigned readings, purchased through the bookstore, provided electronically, and/or provided by your instructor (at cost), must be brought to class. **Students observed using an electronic device during class will automatically lose their Check-in/Check-out AND Clicker-Pation points for the day.** Exceptions will be made for students with a documented disability and/or supported by the Accessibility Services.

On-line Communication

Students may contact the instructor via email. The instructor regularly uses eLearn to communicate with the entire class; as such, it is important that students check eLearn regularly. Individual messages from the instructor, and official communication between Capilano University and students, will be sent to students' official Capilano University email address. It is important that students regularly check their Capilano University email account.

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: <https://www.capilanou.ca/student-life/>

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 and procedures S2017-05 Academic Integrity for more information: <https://www.capilanou.ca/about-capu/governance/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 (found on Policy page <https://www.capilanou.ca/about-capu/governance/policies/>)

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