

College of Education and Human Development Division of Special Education and disAbility Research

Summer 2018 EDSE 621 002: Applied Behavior Analysis: Empirical Bases CRN: 42699, 3 – Credits

Instructor: Dr. Marlene Cohen	Meeting Dates : 5/21/2018 – 8/11/2018	
	Meeting Day(s) : Tuesday (5/22; 6/5; 7/10;	
Phone : 609-532-2382	7/24) via Blackboard Collaborate Ultra	
E-Mail: mcohen24@gmu.edu	Meeting Time (s): 5:30 pm – 6:30 pm	
Office Hours : Tuesdays 6:30 pm – 7:30 pm	Meeting Location: On-line	
or		
by appointment		
Office Location: Blackboard Collaborate	Other Phone: N/A	
Ultra		

*Note: This syllabus may change according to class needs. Teacher Candidates/Students will be advised of any changes immediately through George Mason e-mail and/or through Blackboard.

Prerequisite(**s**): EDSE 619 **Co-requisite**(**s**): EDSE 619

Course Description

Focuses on basic content of applied behavior analysis. Teaches how to implement behavioral procedures and develop behavioral programs for clients with fundamental behavioral needs. Offered by Graduate School of Education. May not be repeated for credit.

Advising Contact Information

Please make sure that you are being advised on a regular basis as to your status and progress through your program. Mason M.Ed. and Certificate teacher candidates/students should contact the Special Education Advising Office at (703) 993-3670 for assistance. All other teacher candidates/students should refer to their faculty advisor.

Advising Tip

Have you met with an advisor? All students should make an appointment to meet with an advisor to outline a plan for completing coursework and non-course requirements such as

testing. To make an appointment by phone or in person, go to http://gse.gmu.edu/special-education/advising/.

Course Delivery Method

Learning activities include the following:

- 1. Synchronous class lecture and discussion
- 2. Application activities
- 3. Small group activities and assignments
- 4. Video and other media supports
- 5. Research and presentation activities
- 6. Electronic supplements and activities via Blackboard

This course will be delivered online (76% or more) using both synchronous and asynchronous] format via Blackboard Learning Management system (LMS) housed in the MyMason portal. You will log in to the Blackboard (Bb) course site using your Mason email name (everything before @masonlive.gmu.edu) and email password. The course site will be available on May 19, 2018.

Under no circumstances, may candidates/students participate in online class sessions (either by phone or Internet) while operating motor vehicles. Further, as expected in a face-to-face class meeting, such online participation requires undivided attention to course content and communication.

Technical Requirements

To participate in this course, students will need to satisfy the following technical requirements:

 High-speed Internet access with standard up-to-date browsers. To get a list of Blackboard's supported browsers see: <u>https://help.blackboard.com/Learn/Student/Getting_Started/Browser_Support#supported-browsers</u>

To get a list of supported operation systems on different devices see: <u>https://help.blackboard.com/Learn/Student/Getting_Started/Browser_Support#tested-</u> <u>devices-and-operating-systems</u>

- Students must maintain consistent and reliable access to their GMU email and Blackboard, as these are the official methods of communication for this course.
- Students will need a headset microphone for use with the Blackboard Collaborate web conferencing tool.
- Students may be asked to create logins and passwords on supplemental websites and/or to download trial software to their computer or tablet as part of course requirements.

- The following software plug-ins for PCs and Macs, respectively, are available for free download:
 - o Adobe Acrobat Reader: <u>https://get.adobe.com/reader/</u>
 - Windows Media Player:
 - https://support.microsoft.com/en-us/help/14209/get-windows-media-player
 - o Apple Quick Time Player: <u>www.apple.com/quicktime/download/</u>

Expectations

• <u>Course Week</u>

Because asynchronous courses do not have a "fixed" meeting day, our week will start on Monday, and finish on Sunday.

Our course week will begin on the day that our synchronous meetings take place as indicated on the Schedule of Classes.

• <u>Log-in Frequency:</u>

Students must actively check the course Blackboard site and their GMU email for communications from the instructor, class discussions, and/or access to course materials at least 3 times per week. In addition, students must log-in for all scheduled online synchronous meetings.

Participation:

Students are expected to actively engage in all course activities throughout the semester, which includes viewing all course materials, completing course activities and assignments, and participating in course discussions and group interactions.

• <u>Technical Competence:</u>

Students are expected to demonstrate competence in the use of all course technology. Students who are struggling with technical components of the course are expected to seek assistance from the instructor and/or College or University technical services.

• <u>Technical Issues:</u>

Students should anticipate some technical difficulties during the semester and should, therefore, budget their time accordingly. Late work will not be accepted based on individual technical issues.

• Workload:

Please be aware that this course is **not** self-paced. Students are expected to meet *specific deadlines* and *due dates* listed in the **Class Schedule** section of this syllabus. It is the student's responsibility to keep track of the weekly course schedule of topics, readings, activities and assignments due.

• Instructor Support:

Students may schedule a one-on-one meeting to discuss course requirements, content or other course-related issues. Those unable to come to a Mason campus can meet with the instructor via telephone or web conference. Students should email the instructor to schedule a one-on-one session, including their preferred meeting method and suggested dates/times.

• <u>Netiquette:</u>

The course environment is a collaborative space. Experience shows that even an innocent remark typed in the online environment can be misconstrued. Students must always re-read their responses carefully before posting them, so as others do not consider them as personal offenses. *Be positive in your approach with others and diplomatic in selecting your words*. Remember that you are not competing with classmates, but sharing information and learning from others. All faculty are similarly expected to be respectful in all communications.

• Accommodations:

Online learners who require effective accommodations to insure accessibility must be registered with George Mason University Disability Services.

Learner Outcomes

Upon completion of this course, teacher candidates/students will be able to:

- 1. Describe philosophical assumptions underlying data-based decision making in applied behavior analysis.
- 2. Define, describe, identify, exemplify, and use direct measures of behavior.
- 3. Define, describe, identify, exemplify, and use indirect measures of behavior.
- 4. Construct and interpret equal interval graphs.
- 5. Construct and interpret standard celeration charts.
- 6. Describe, identify, and exemplify single subject experimental design.
- 7. Describe and exemplify data-based decision making using visual inspection of graphically presented behavioral data in the context of single subject experimental designs.
- 8. Describe and identify utility and factors affecting use of single subject designs for evaluating instructional, behavioral, and other interventions in applied settings.
- 9. Describe, identify, and exemplify ethical factors regarding data collection, data management, and data based decision making as described by the Guidelines for Responsible Conduct and the Disciplinary Standards.
- 10. Read, interpret, and evaluate articles from the behavior analytic literature.

Course Relationship to Program Goals and Professional Organizations

This course is part of the George Mason University, Graduate School of Education (GSE), Special Education Program for Applied Behavior Analysis Graduate Certificate. The content of the courses in this program is derived from the Task List published by the national Behavior Analyst Certification Board (BACB) as well as the Professional and Ethical Compliance Code for Behavior Analysts. The Professional and Ethical Compliance Code for Behavior Analysts is listed on the following website: http://bacb.com/wp-content/uploads/2016/03/160321compliance-code-english.pdf. For more information on the Board and the examination, please visit the Board's website at www.bacb.com.

Required Textbooks

American Psychological Association. (2010). *Publication manual of the American Psychological Association* (6th ed.). Washington, DC: Author.

- Cooper, J.O., Heron, T.E., & Heward, W.L. (2007). Applied behavior analysis (2nd Ed.). Upper Saddle River, NJ: Pearson Merrill Prentice Hall. ISBN 0-13-142113-1
- Foxx, R.M., & Mulick, J.A. (2015). Controversial therapy for autism and intellectual disabilities: Fad, fashion, and science in professional practice (2nd Edition). New York, NY: Routledge. ISBN 978-1-138-80223-0

Recommended Textbooks

N/A

Required

Given the possibility of computer or internet difficulties some students may experience from time to time, students must consider and identify alternative availability of computers and internet access (e.g., public libraries, their employer (if permissible by the employer), internet cafes, etc.) within the first week of this course to ensure that they will be able to complete their assignments in a timely manner.

Students will need to have access to a scanner in order to scan and upload their completed assignments. Each assignment must be scanned into a single document and saved as a pdf file. **No photographs will be accepted**. Likewise, multiple one page scans (e.g., 5 single page pdf files instead of a single 5 page file) will also not be accepted.

Many home printers have scanning capability, and one can also scan at Fedex Office, Staples or other stores. Finally, one's employer may be able to make scanning available on request.

Only assignments submitted in Microsoft Word or in PDF files will be accepted. No assignments in any other file format will be accepted.

Additional Readings

Readings will be assigned by the instructor throughout the semester and will be posted to Blackboard. **Students are responsible for ALL readings**.

Course Performance Evaluation

Students are expected to submit all assignments on time in the manner outlined by the instructor (e.g., Blackboard, Tk20, hard copy).

Tk20 Performance-Based Assessment Submission Requirement

It is critical for the special education program to collect data on how our students are meeting accreditation standards. Every teacher candidate/student registered for an EDSE course with a required Performance-based Assessment (PBA) is required to upload the PBA to Tk20 (regardless of whether a course is an elective, a one-time course or part of an undergraduate minor). A PBA is a specific assignment, presentation, or project that best demonstrates one or more CEC, InTASC or other standard connected to the course. A PBA is evaluated in two ways. The first is for a grade, based on the

instructor's grading rubric. The second is for program accreditation purposes. Your instructor will provide directions as to how to upload the PBA to Tk20.

For *EDSE 621*, the required PBA is <u>Make Your Own Experiment and Final Exam</u> <u>Feedback</u>. Failure to submit the assignment to Tk20 will result in reporting the course grade as Incomplete (IN). Teacher candidates/students have until five days prior to the University-stated grade change deadline to upload the required PBA in order to change the course grade. When the PBA is uploaded, the teacher candidate/student is required to notify the instructor so that the "IN" can be changed to a grade. If the required PBA is not uploaded five days prior to the University-stated grade change deadline and, therefore, the grade not changed, it will become an F. Please check to verify your ability to upload items to Tk20 before the PBA due date.

Assignments and/or Examinations Performance-based Assessment (Tk20 submission required)

There are two assignments for this course that require submission through TK20.

They are as follows:

Final Examination. This test will consist of 50 items (worth 2 points each), and will be given as a pretest on the first night of class, and a parallel form as a final exam on the last night of class. Credit toward your final score will only be given for your performance on this test on the last night of class. After you have completed your final exam, you'll be emailed a document that details your performance by content area covered by the exam. You'll need to upload this document to TK20 after receiving it.

Make Your Own Experiment. You will be provided with 10 scenarios. You will choose two scenarios for which you will complete this project. You will use a different experimental design and a different data collection method for each of the two scenarios you choose. For each of these scenarios, instructions are as follows:

- A. develop a behavioral definition for the identified problem behavior (2 points);
- B. select a measure for the behavior of interest (and give the rationale for selecting this measure) (2 points);
- C. develop a recording form for collecting data (2 points);
- D. write step by step instructions for collecting data, ensuring that these instructions:
 - a. are bulleted
 - b. use active voice
 - c. specify only one implementer behavior per step
 - d. instruct the implementer what to do
 - e. use only as many words as is necessary
 - f. provide steps in linear order
 - g. include only necessary steps (necessary)
 - h. include all necessary steps (sufficient) (8 points);
- E- select a design that will best answer the question asked (and give the

rationale for that design) (2 points);

- F- describe, step by step, how you will implement that design, indicating:
 - a. How you will begin baseline data collection (1 point);
 - b. Decision rules for introducing your intervention (1 point)
 - c. Decision rules for withdrawing and for reintroducing your intervention (if appropriate) or for introducing your intervention in another setting (or for another therapist, subject, behavior, etc.) (if appropriate) (1 point); and

d. How you will control for relevant threats to internal validity (1 point)

- G- Construct a graph of possible data that would show functional control of the intervention over the behavior, using the design you chose (2 points).
- H- Scan all of this into a single document, and submit, in PDF form.

College Wide Common Assessment (TK20 submission required) None

Performance-based Common Assignments (No Tk20 submission required)

EDSE 619 Final Exam. You will already completed EDSE 619, or you will be taking it at the same time you are taking this course. During the first week of this course, you will complete the final exam for EDSE 619 that this instructor gives as a final exam when he teaches EDSE 619. Your instructor will provide you with written feedback regarding your performance by the end of the fourth week of the course. The purpose of this assignment is to promote maintenance and retention of content learned during EDSE 619, and / or to help each student identify areas of weakness needing attention that may impact the student's performance in EDSE 621. This final exam must be completed during the first week of the course. It is no longer available after 11:59 pm on 27 May 2018. You will receive 0.2 points for each correct response on this final exam.

CITI Training Module. You will be responsible for completing the basic human subjects research modules recommended for anyone conducting research at GMU. These modules are available through https://www.citiprogram.org/. Please be sure to take the Social and Behavioral Science Research Basic course. Registering for the wrong course will not count towards this class and may result in significant time lost (30 Points).

Interteaching Assignments

This assignment will allow you to have hands-on access to the reading materials, as well as discussion. Each week, you will be given an activity that will extend your knowledge of the readings. This will consist of a study sheet. While you may choose to complete parts of the assignment independently, the goal is for you to work with a partner to discuss the readings and complete the study guide together. You will be responsible for completing a study guide relating to the readings and any class activity. This guide will consist of both factual and openended questions. Your study guides will be the basis for your unit quizzes and final exam. (5 points per assignment).

Weekly Quizzes. Beginning with Week 1, you will have a 10 item, multiple choice quiz each week, covering content presented during that week. (Week 1's quiz will include the syllabus.) Each question will be worth 1 point toward your final grade. You will be provided with 15 minutes in which to complete each quiz. Once you answer a quiz question, you will not be able to return to it.

Reaction Video. During the weeks indicated on the syllabus, you will either access a recording through that week's blackboard folder, or will follow the instructions in that folder to access one or more recordings. You will watch / listen two these recordings in their entirety and will then record your reaction via video and post it in the Discussion Forum. The video should contain enough information to fill a 1 - 2 page paper

in which you:

- 1. Summarize the presentation.
- 2. Explain what was new to you in the presentation.
- 3. Explain how you can incorporate what you learned in that presentation into your work.

You will also be required to view the video of two other students and comment on their response.

<u>Final Exam</u>

A final exam will be given to test knowledge of measurement, assessment, and experimental design concepts. Each test item is correlated to the BACB Task List to help the student identify strengths and weaknesses in empirical methods.

The instructor will provide written feedback on students' correct and incorrect responses

Course Policies and Expectations Attendance/Participation

Attendance/Participation. All students are expected to be present, in Blackboard Collaborate and ready to work, at 5:30 pm on Synchronous Discussion days. Your instructor will take a screen shot of the listing of those present at the beginning of each session. All whose names are listed at in that screen shot will earn 1 point for being present on time. All students are expected to remain for the entire Synchronous Discussion session, each session. Your instructor will likewise take a screen shot of the listing of names at the end of each Synchronous Discussion session, and all students whose names are on the list at that time will earn 1 point for being present at that time. Arriving late, leaving early or absence from a Synchronous Discussion will preclude opportunity for earning attendance points. Each student is expected to contribute to each Synchronous Discussion by speaking. This means that each student's microphone must work; participating from a computer without a working microphone will preclude opportunity to participate. Likewise, typing one's comments or questions will not count toward contribution points. Contributing to a synchronous discussion by speaking will earn 2 points per synchronous discussion. Absence form a discussion precludes opportunity to earn participation points.

Late Work.

All assignments are due no later than the due dates indicated on the syllabus. Late assignments will not be accepted.

Assignment Type	Number of	Points Possible per	Points Possible by	Cumulative Points
	Opportunities	Opportunity	Туре	Possible
EDSE 619 Final	1 test	10 points	10 points	10 points
Exam				
Weekly Quizzes	12 quizzes	10 points	130 points	140 points
EDSE 621 Final	1 test	100 points	100 points	240 points
Exam				
Make Your Own	1 project	20 points for parts	60 points for parts	340 points
Experiment	submitted in 4	1, 2 and 3	1, 2 and 3	
Project (Applied)	parts	40 points for part	40 points for	
		4	part 4	

Grading	Scale
Oraumg	Scale

Make Your Own	1 project	20 points for parts	60 points for parts	440 points
Experiment	submitted in 4	1, 2 and 3	1, 2 and 3	
Project (Basic)	parts	40 points for part	40 points for	
		4	part 4	
Reaction Video	1 forum	10 points	10 points	450 points
Posted on				
Discussion Board				
Interteaching	9 assignments	10 points	90 points	540 points
Assignments				
CITI Training	1 module	30 points	10 points	570 points
Module				
Synchronous	4 discussions	2 points	8 points	578 points
Discussions				
Synchronous	4 discussions	10 points	40 points	618 points
Discussion				
Summaries				

Grading Criterion:

Grade	Percentage	Grade	Percentage	Grade	Percentage
A+	97-100%	А	96-93%	A-	92-90%
B+	87-89%	В	83-86%	B-	80-82%
С	77-79%	F	76% and Below		

*Note: The George Mason University Honor Code will be strictly enforced. Students are responsible for reading and understanding the Code. "To promote a stronger sense of mutual responsibility, respect, trust, and fairness among all members of the George Mason University community and with the desire for greater academic and personal achievement, we, the student members of the university community, have set forth this honor code: Student members of the George Mason University community pledge not to cheat, plagiarize, steal, or lie in matters related to academic work." Work submitted <u>must</u> be your own or with proper citations (see https://catalog.gmu.edu/policies/honor-code-system/).

Professional Dispositions

Students are expected to exhibit professional behaviors and dispositions at all times. See <u>https://cehd.gmu.edu/students/polices-procedures/</u>

Class Schedule

*Note: Faculty reserves the right to alter the schedule as necessary, with notification to students.

Date	Topics	Assignments/Activities	Content Hours
			Distribution
Week 1 Week of May 21	Review Syllabus Review Honor Code Review APA Format Review Make Your Own Experiment Assignments Introduction to Single subject design – Pinpointing and Defining Behavior	 ✓ Complete Week 1 Quiz 1 (covering the syllabus) by 11:59 pm 1/29/18 ✓ Complete EDSE 619 Final Exam by 11:59 pm 5/27 ✓ Synchronous Discussion 5:30 pm 5/23 ✓ Complete Synchronous Meeting Notes ✓ Read CT Ch 1 and 2 ✓ Read ABA Ch 1, pp. 65 – 69 ✓ Complete Week 1 Quiz 2 by 11:59 pm 5/29 ✓ Select and submit topics for Make Your Own Experiment by May 30 	 ✓ Quiz 1: 15 min ✓ Review Test: 50 min ✓ Synchronous Discussion: 60 min ✓ Synchronous meeting notes: 20 minutes ✓ Recorded content: 25 min ✓ Recorded content: 10 min ✓ Quiz 2: 15 min ✓ Select Topics for Make Your Own Experiment:
Week 2 Week of May 28	Research Ethics Measurement – Why bother? Direct Measures of Behavior: count, cumulative count, duration, rate, latency, interresponse time, extensity, intensity	 ✓ Read CT Ch 3 and 4 ✓ Read ABA Ch 7 ✓ Complete Week 2 Quiz by 11:59 pm 6/3 ✓ Interteaching Assignment Week 2 	 ✓ Recorded content: 40 min ✓ Recorded content: 35 min ✓ Quiz: 15 min ✓ Week 2 Interteaching

		 ✓ Assignment 1: Make your Own Experiment (Applied) and Make your Own Experiment (Basic) 	Assignment: 60 min ✓ Assignment 1: Make your Own Experiment (Applied) and (Basic): 30 min
Week 3 Week of June 4	Defining Behavior Sampling	 ✓ Read CT Ch 5 and 6 ✓ Read ABA Ch 3 ✓ Synchronous discussion 6/5 ✓ Complete Synchronous Meeting Notes ✓ Complete Week 3 Quiz by 11:59 pm 6/10 ✓ Interteaching Assignment Week 3 ✓ Assignment 2: Make your Own Experiment (Applied) and Make your Own Experiment (Basic) 	 ✓ Recorded content: 20 min ✓ Recorded content: 40 min ✓ Synchronous discussion 60 minutes ✓ Synchronous meeting notes: 20 minutes ✓ Quiz: 15 min ✓ Week 3 Interteaching Assignment: 60 min ✓ Assignment 2: Make your Own Experiment (Applied) and (Basic): 40 min
Week 4 Week of June 11	Continuous Measurement	 ✓ Read CT Ch 7 through and inc. 10 ✓ Read ABA Ch 4 	 ✓ Recorded content: ✓ 50 min ✓ Recorded content: 35

		 ✓ Complete Week 4 Quiz by 11:59 pm 6/17 ✓ Interteaching Assignment Week ✓ Assignment 3: Make your Own Experiment (Applied) 	 min ✓ Quiz: 30 min ✓ Week 4 Interteaching Assignment: 60 min ✓ Assignment 3: Make your Own Experiment (Applied): 40 min
Week 5 Week of June 18	Discontinuous Measurement Choice	 ✓ Read CT Ch 11 and 12 ✓ Complete Week 5 Quiz by 11:59 pm 	 ✓ Recorded content: 45 min ✓ Quiz: 15 min
		6/24 ✓ Interteaching Assignment Week 5	 ✓ Week 5 Interteaching Assignment: 60 min
		 ✓ Assignment 3: Make your Own Experiment (Basic) 	 ✓ Assignment 3: Make your Own Experiment (Basic): 40 min
Week 6 Week of June 25	Treatment Integrity Interobserver Agreement	 ✓ Read CT Ch 13 and 14 ✓ Read ABA Ch 5 and 10 ✓ Complete Week 6 Quiz by 11:59 pm 7/1 ✓ Interteaching 	 ✓ Recorded content: 30 min ✓ Recorded content: 60 min Quiz: 15 min
		Assignment Week 6 ✓ Work on Make Your Own	 ✓ Week 6 Interteaching Assignment: 60 min

		Experiment Assignment 4 (Applied) and Make Your Own Experiment (Basic)	 ✓ Make Your Own Experiment (Applied) and Make Your Own Experiment (Basic): 60 min
Week 7 Week of July 2	Equal Interval Graphing	 ✓ Read CT Ch 15 and 16 ✓ Read ABA Ch 6 ✓ Complete Week 7 Quiz by 11:59 pm 7/8 ✓ Interteaching Assignment Week 7 ✓ Continue to work on Make Your Own Experiment Assignment 4 (Applied) and Make Your Own Experiment (Basic) 	 ✓ Recorded content: 30 min ✓ Recorded content: 40 min ✓ Quiz: 15 min ✓ Quiz: 15 min ✓ Week7 Interteaching Assignment: 60 min ✓ Make Your Own Experiment (Applied) and Make Your Own Experiment (Basic): 60 min
Week 8 Week of July 9	Standard Behavior Charting Design and Functional Control Human Subjects Protection	 (Basic) ✓ Read CT Ch 17 and 18 ✓ Read ABA Ch 8 ✓ Synchronous discussion 7/10 ✓ Complete Synchronous Meeting Notes 	 ✓ Recorded content: 20 min ✓ Recorded content: 20 min ✓ Synchronous discussion 60 minutes ✓ Synchronous meeting notes: 20 minutes

		 ✓ Complete Week 8 Quiz by 11:59 pm 7/15 ✓ Submit CITI Training Certificate by 	 ✓ Quiz: 15 min ✓ CITI Training (Basic): 50
		 ✓ Interteaching Assignment Week 8 ✓ Submit draft of Make Your Own Experiment Assignment 4 (Applied) 	 ✓ Week 8 Interteaching Assignment: 60 min ✓ Make Your Own Experiment Assignment 4 (Applied): 60 min
Week 9 Week of July 16	Multiple Baseline/Multiple Probe Design Changing Criterion Design	 ✓ Read CT Ch 19 and 20 ✓ Read ABA Ch 9 ✓ Complete Week 9 Quiz by 11:59 pm 7/22 ✓ Submit draft of 	 ✓ Recorded content: 35 min ✓ Recorded content: 20 min ✓ Quiz: 15 min ✓ Make Your
		Make Your Own Experiment Assignment 4 (Basic)	Own Experiment Assignment 4 (Basic): 60 min
Week 10 Week of July 23	Alternate Treatment Design Component and Parametric Analysis	 ✓ Read CT Ch 21 and 22 ✓ Read ABA Ch 8 ✓ Complete Week 10 Quiz by 11:59 pm 7/29 	 ✓ Recorded content: 35 min ✓ Recorded content: 20 min ✓ Quiz: 15 min

		~	Synchronous discussion 7/24	\checkmark	Synchronous discussion: 60
		~	Complete Synchronous Meeting Notes	✓	Synchronous meeting notes: 20 minutes
		~	Submit Reaction Video you're your chosen reading in the discussion forum by 11:59 pm 7/29	~	Reaction video: 30 min
		~	and your comments are due by 8/5 Interteaching Assignment Week 10	✓ ✓	Week 10 Interteaching Assignment: 60 min Revisions for
		~	Work on revisions Make Your Own Experiment Assignment 4 (Applied) and Make Your Own Experiment (Basic)		Make Your Own Experiment Assignment 4 (Applied) and Make Your Own Experiment (Basic): 60 min
Week 11 Week of July 30	Work on Make Your Own Experiment Assignments (Basic and Applied)	✓ ✓	Read CT chapters 23 and 24 Complete	~	Recorded content: 50 min
			Week 11 Quiz by 11:59 pm 8/5	\checkmark	Quiz: 15 min
		√	Interteaching Assignment Week 11	~	Week 11 Interteaching Assignment:
		↓	Work on revisions Make Your Own	√	60 Revisions for Make Your

		Experiment Assignment 4 (Applied) and Make Your Own Experiment (Basic)	Own Experiment Assignment 4 (Applied) and Make Your Own Experiment (Basic): 60 min
Week 12 Week of August 6	Radical Behaviorism and measurement of overt and covert behavior Final Exam and Make Your own	 ✓ Listen to Whatever happened to psychology as the science of behavior (Skinner, 1986). 	 ✓ Recorded content: 50 min
	Experiment Project Due No Later than 8/11	 ✓ Submit final draft Make Your own Experiments documents (Applied and Basic) to TK20 no later than 11:59 pm on 8/11 ✓ Complete your final exam online by 8/11 	 ✓ Make you Own Experiment (Applied): 60 min ✓ Make your Own Experiment (Basic): 60 min ✓ Final exam: 120 min

Core Values Commitment

The College of Education and Human Development is committed to collaboration, ethical leadership, innovation, research-based practice, and social justice. Students are expected to adhere to these principles: <u>http://cehd.gmu.edu/values/</u>

GMU Policies and Resources for Students

Policies

- Students must adhere to the guidelines of the Mason Honor Code (see https://catalog.gmu.edu/policies/honor-code-system/).
- Students must follow the university policy for Responsible Use of Computing (see

http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/).

- Students are responsible for the content of university communications sent to their Mason email account and are required to activate their account and check it regularly. All communication from the university, college, school, and program will be sent to students **solely** through their Mason email account.
- Students with disabilities who seek accommodations in a course must be registered with George Mason University Disability Services. Approved accommodations will begin at the time the written letter from Disability Services is received by the instructor (see http://ods.gmu.edu/).
- Students must silence all sound emitting devices during class unless otherwise authorized by the instructor.

Campus Resources

- Support for submission of assignments to Tk20 should be directed to <u>tk20help@gmu.edu</u> or <u>https://cehd.gmu.edu/aero/tk20</u>. Questions or concerns regarding use of Blackboard should be directed to <u>http://coursessupport.gmu.edu/</u>.
- For information on student support resources on campus, see <u>https://ctfe.gmu.edu/teaching/student-support-resources-on-campus</u>

For additional information on the College of Education and Human Development, please visit our website <u>https://cehd.gmu.edu/students/</u>.

Assessment Rubric(s) Assessment #5 EDSE 621—Make Your Own Experiment Project

Task List	1	2	3
Items	Does Not Meet	Meets Expectations	Exceeds Expectations
	Expectations		_
Measurement	Given a scenario	Given a scenario	Given a scenario
– Applied	describing a	describing a	describing a
Research	behavioral need in an	behavioral need in an	behavioral need in an
	applied setting, the	applied setting, the	applied setting, the
	candidate:	candidate:	candidate:
	• Defines the	• Defines the	• Defines the
	behavior, including	behavior, including	behavior, including
	any relevant private	any relevant private	any relevant private
	events, in behavior-	events, in behavior-	events, in behavior-

ana	alvtic (non-		ana	lytic (non-		ana	lytic (non-
mentalistic) terms		mentalistic) terms		mentalistic) terms			
 Selects one massure 		 Selects one measure 		 Selects two or more 			
• Selects one measure		•	• Selects one measure		•	mag	sures for the
int	arest and does		into	arest and does		hoh	avior of interest
fou	r or forwar of the		interest, and does		and does each of the		
	li of lewer of the		each of the			following for that	
101	lowing for that		following for that			10110	owing for that
me	asure:		mea	asure:		mea	isure:
0	Gives a		0	Gives a		0	Gives a
	clinically sound			clinically sound			clinically sound
	rationale for the			rationale for the			rationale for the
	measure chosen			measure chosen			measure chosen
	that addresses			that addresses			that addresses
	dimensions of			dimensions of			dimensions of
	the behavior			the behavior			behavior and
	and logistics of			and logistics of			logistics of
	observing and			observing and			observing and
	recording.			recording.			recording.
0	Develops a		0	Develops a		0	Develops a
	behavioral data			behavioral data			behavioral data
	recording form.			recording form.			recording form.
0	Writes step by		0	Writes step by		0	Writes step by
	step instructions			step instructions			step instructions
	for collecting			for collecting			for collecting
	the data			the data			the data
	(including the			(including the			(including the
	schedule of			schedule of			schedule of
	observation and			observation and			observation and
	recording			recording			recording
	periods).			periods).			periods).
0	Prepares a		0	Prepares a		0	Prepares a
-	graph potential		-	graph potential		-	graph potential
	behavioral data			behavioral data			behavioral data
	using either an			using either an			using either an
	equal interval			equal interval			equal interval
	oranh			graph			oranh
	cumulative			cumulative			cumulative
	record or a			record or a			record or a
	standard			standard			standard
	behavior chart			behavior chart			behavior chart
0	Maguras from		0	Mangurag from		0	Maggurag from
0	which the		0	which the		0	which the
	which the			which the			which the
	student chooses			student chooses			student chooses
	are:			are:			are:
	• Count			• Count			• Count
	Rate			Rate			Rate

	 Duration Latency IRT Percentage Trials to Criterion 	 Duration Latency IRT Percentage Trials to Criterion 	 Duration Latency IRT Percentage Trials to Criterion
Experimental	Given a scenario	Given a scenario	Given a scenario
Design	describing a	describing a	describing a
	behavioral need in an	behavioral need in an	behavioral need in an
	applied setting, the	applied setting, the	applied setting, the
	candidate does four or	candidate does each	candidate does each
	fewer of the following:	of the following:	of the following:
	 Selects an 	 Selects an 	 Selects an
	experimental design	experimental design	experimental design
	that will answer the	that will answer the	that will answer the
	Cives a clinically	Cives a clinically	Cives a clinically
	sound rationale for	sound rationale for	sound rationale for
	that design	that design	that design
	selection	selection	selection
	 Writes step by step 	 Writes step by step 	 Writes step by step
	instructions for how	instructions for how	instructions for how
	that experimental	that experimental	that experimental
	design will be	design will be	design will be
	implemented,	implemented,	implemented,
	including:	including:	including:
	 Decision Rules 	 Decision Rules 	 Decision Rules
	for introducing	for introducing	for introducing
	the intervention	the intervention	the intervention
	• Decision rules	• Decision rules	• Decision rules
	for withdrawing	for withdrawing	for withdrawing
	the intervention	the intervention	the intervention
	(11 there are	(11 there are	(11 there are
	withdrawals) or	withdrawals) or	withdrawals) or
	the intervention	the intervention	the intervention
	in another	in another	in another
	setting for	setting for	setting for
	another theranist	another	another
	with another	therapist. with	therapist. with
	participant. etc.:	another	another
	• Designs from	participant, etc.:	participant, etc.:
	which one may	• Designs from	• Designs from
	select include:	which one may	which one may
		select include:	select include:

- 11/1 1	- 337.41 1 1	- 111 1
• Withdrawal	• Withdrawal	• Withdrawal
Design	Design	Design
(minimum	(minimum	(minimum
ABAB)	ABAB)	ABAB)
 Alternating 	 Alternating 	 Alternating
treatments	treatments	treatments
design	design	design
 Changing 	 Changing 	 Changing
criterion	criterion	criterion
design	design	design
 Multiple 	 Multiple 	Multiple
baseline	baseline	haseline
design	design	design
Multiple	Multiple	Multiple
- Multiple	- Multiple	- Multiple
		probe design
Pairwise	Pairwise	- Pairwise
comparison	comparison	comparison
 Identifies at least 	 Identifies at least 	 Transforms the
two relevant threats	two relevant threats	design into either a
to internal validity	to internal validity	parametric analysis
given the scenario	given the scenario	or a component
 Writes step by step 	 Writes step by step 	analysis to assess
instructions for how	instructions for how	necessary levels of
each of those threats	each of those threats	intervention or
to internal validity	to internal validity	necessary
will be managed or	will be managed or	intervention
minimized.	minimized.	components:
		• Writes step by
		step instructions
		for conducting
		the parametric
		analysis or
		component
		analysis
		o Provides
		decision miles
		for malving
		condition
		changes in the
		context of
		parametric
		analysis or
		component
		analysis
		 Identifies at least
		two relevant threats

			 to internal validity given the scenario Writes step by step instructions for how each of those threats to internal validity will be managed or minimized.
Measurement	Given a scenario	Given a scenario	Given a scenario
– Basic	describing a basic	describing a basic	describing a basic
Research	research question, the	research question, the	research question, the
	candidate:	candidate:	candidate:
	• Defines the	• Defines the	• Defines the
	behavior, including	behavior, including	behavior, including
	any relevant private	any relevant private	any relevant private
	events, in behavior-	events, in behavior-	events, in behavior-
	analytic (non-	analytic (non-	analytic (non-
	mentalistic) terms.	mentalistic) terms.	mentalistic) terms.
	• Selects one measure	• Selects one measure	• Selects two or more
	for the behavior of	for the behavior of	measures for the
	interest, and does	interest, and does	behavior of interest,
	four or fewer of the	each of the	and does each of the
	following for that	following for that	following for that
	measure:	measure:	measure:
	o Gives a	o Gives a	• Gives a
	clinically sound	clinically sound	clinically sound
	rationale for the	rationale for the	
	choson	chosen	chosen
	Develops a	chosen.	chosen.
	behavioral data	behavioral data	o Develops a behavioral data
	recording form	recording form	recording form
	• Writes step by	• Writes step by	\circ Writes step by
	step instructions	step instructions	step instructions
	for collecting	for collecting	for collecting
	the data.	the data.	the data.
	• Prepares a	• Prepares a	• Prepares a
	graph potential	graph potential	graph potential
	behavioral data	behavioral data	behavioral data
	using either an	using either an	using either an
	equal interval	equal interval	equal interval
	graph,	graph,	graph,
	cumulative	cumulative	cumulative
	record, or a	record, or a	record, or a

	standard	standard	standard
	behavior chart.	behavior chart.	behavior chart.
	• Measures from	• Measures from	• Measures from
	which the	which the	which the
	student chooses	student chooses	student chooses
	are:	are:	are:
	 Count 	 Count 	 Count
	Rate	Rate	Rate
	 Duration 	 Duration 	 Duration
	 Latency 	 Latency 	 Latency
	• IRT	• IRT	■ IRT
	 Percentage 	 Percentage 	 Percentage
	 Trials to 	 Trials to 	 Trials to
	Criterion	Criterion	Criterion
Experimental	Given a scenario	Given a scenario	Given a scenario
Design	describing a	describing a	describing a
0	behavioral need in an	behavioral need in an	behavioral need in an
	applied setting, the	applied setting, the	applied setting, the
	candidate does four or	candidate does each	candidate does each
	fewer of the following:	of the following:	of the following:
	 Selects an 	 Selects an 	 Selects an
	experimental design	experimental design	experimental design
	that will answer the	that will answer the	that will answer the
	scenario's question,	scenario's question,	scenario's question,
	• Gives a clinically	• Gives a clinically	• Gives a clinically
	sound rationale for	sound rationale for	sound rationale for
	that design	that design	that design
	selection,	selection,	selection,
	 Writes step by step 	 Writes step by step 	 Writes step by step
	instructions for how	instructions for how	instructions for how
	that experimental	that experimental	that experimental
	design will be	design will be	design will be
	implemented,	implemented,	implemented,
	including:	including:	including:
	 Decision Rules 	 Decision Rules 	 Decision Rules
	for introducing	for introducing	for introducing
	the intervention	the intervention	the intervention
	 Decision rules 	 Decision rules 	 Decision rules
	for withdrawing	for withdrawing	for withdrawing
	the intervention	the intervention	the intervention
	(if there are	(if there are	(if there are
	withdrawals) or	withdrawals) or	withdrawals) or
	for introducing	for introducing	for introducing
	the intervention	the intervention	the intervention
	in another	in another	in another

setting, for	setting, for	setting, for
another therapist,	another	another
with another	therapist, with	therapist, with
participant, etc.;	another	another
• Designs from	participant, etc.;	participant, etc.;
which one may	• Designs from	• Designs from
select include:	which one may	which one may
 Withdrawal 	select include:	select include:
Design	 Withdrawal 	 Withdrawal
(minimum	Design	Design
ABAB)	(minimum	(minimum
 Alternating 	ABAB)	ABAB)
treatments	 Alternating 	 Alternating
design	treatments	treatments
 Changing 	design	design
criterion	 Changing 	 Changing
design	criterion	criterion
 Multiple 	design	design
baseline	 Multiple 	 Multiple
design	baseline	baseline
 Multiple 	design	design
probe design	 Multiple 	 Multiple
 Pairwise 	probe design	probe design
comparison	 Pairwise 	 Pairwise
 Identifies at least 	comparison	comparison
two relevant threats	 Identifies at least 	 Transforms the
to internal validity	two relevant threats	design into either a
given the scenario	to internal validity	parametric analysis
 Writes step by step 	given the scenario	or a component
instructions for how	• Writes step by step	analysis to assess
each of those threats	instructions for how	necessary levels of
to internal validity	each of those threats	intervention or
will be managed or	to internal validity	necessary
minimized.	will be managed or	intervention
	minimized.	Writes step by
		o whiles step by
		for conducting
		the perometric
		analysis or
		analysis Of
		analycic
		\circ Provides
		decision rules
		for making
		condition

	changes in the
	context of
	parametric
	analysis or
	component
	analysis
	 Identifies at least
	two relevant threats
	to internal validity
	given the scenario
	 Writes step by step
	instructions for how
	each of those threats
	to internal validity
	will be managed or
	minimized.