EDSE 621 / Empirical Bases of Applied Behavior Analysis
Spring 2010 / Page 1 of 7

SYLLABUS
GEORGE MASON UNIVERSITY
COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT
APPLIED BEHAVIOR ANALYSIS CERTIFICATE PROGRAM
EDSE 621 6A4
Empirical Bases of Applied Behavior Analysis
Spring 1 2010
Tuesdays, 4:30 pm – 8:30 pm
Ivymount School, 11614 Seven Locks Rd, Rockville MD, 20854
Rooms 133 and 134

PROFESSOR
NAME
Meghan Hoffman, M.Ed., B.C.B.A.
Adjunct Professor, College of Education and Human Development
PHONE
240-603-5801
EMAIL ADDRESS
mdougher@gmu.edu
OFFICE HOURS
Meeting times are available, please contact me through email

COURSE DESCRIPTION

A Prerequisites. Prior completion of EDSE 619 / Psych 619, or concurrent registration in either of those courses.

B Course description. This course focuses on the basic content of applied behavior analysis and teaches course participants to implement behavioral procedures and develop behavioral programs for clients with fundamental behavioral needs. More specifically, this course focuses on the empirical bases of applied behavior analysis. These are data-based decision making and determining procedural efficacy through single-subject experimental designs. Additionally, we will discuss ethical issues as they pertain to collecting, using, reporting, and storing data; and to experimental design in clinical, educational, and experimental work.

NATURE OF COURSE DELIVERY

Lecture, discussion, written assignments, written assessments, and asynchronous online discussion.

STUDENT OUTCOMES and PROFESSIONAL STANDARDS

This course addresses the Council on Exceptional Children’s Standard #8 (Assessment), which reads as follows:

Assessment is integral to the decision-making and teaching of special educators and special educators use multiple types of assessment information for a variety of educational decisions. Special educators use the results of assessments to help identify exceptional learning needs and to develop and implement individualized instructional programs, as well as to adjust instruction in response to ongoing learning progress. Special educators understand the legal policies and ethical principles of measurement and assessment related to referral, eligibility, program planning, instruction, and placement for individuals with ELN, including those from culturally and linguistically diverse backgrounds. Special educators understand measurement theory and practices for addressing issues of validity, reliability, norms, bias, and interpretation of assessment results. In addition, special educators understand the appropriate use and limitations of various types of assessments.
Special educators collaborate with families and other colleagues to assure non-biased, meaningful assessments and decision-making. Special educators conduct formal and informal assessments of behavior, learning, achievement, and environments to design learning experiences that support the growth and development of individuals with ELN. Special educators use assessment information to identify supports and adaptations required for individuals with ELN to access the general curriculum and to participate in school, system, and statewide assessment programs. Special educators regularly monitor the progress of individuals with ELN in general and special curricula. Special educators use appropriate technologies to support their assessments.

**REQUIRED TEXTS**


**ARTICLES**

The following articles may be downloaded from the Journal of Applied Behavior Analysis website. There is a link to this website at External Links at this course's Blackboard page.


The following articles may be downloaded from E-Reserve at the GMU Library website. There is a link to this website at this course’s Blackboard page under External Links. Once there, please choose E-Reserve, this course, and your instructor’s name. You will need a password, and your instructor will furnish this to you as soon as it is available.


**ADDITIONAL TEXT MATERIAL**

You will need a copy of the Behavior Analyst Certification Board’s Task List and Guidelines for Responsible Conduct. Download both from the Board’s website at [www.bacb.com](http://www.bacb.com).

**COURSE REQUIREMENTS, PERFORMANCE-BASED ASSESSMENT, AND EVALUATION CRITERIA**

**Requirements and Performance-Based Assessment**

**Blackboard Discussion Board Items.** For weeks indicated below, in conjunction with your readings from *Controversial therapies for developmental disabilities*, respond to the week’s two Discussion Board items. To respond, first do the assigned reading. Next, go to the week’s Discussion Board items on Blackboard. Read your instructor’s question and your classmates’ responses. Respond directly to the instructor’s question, or to content posted by your classmates. Posts must be made prior to the start time for the assigned class session. You will earn 2 points for each post made on time. Late posts will earn 1 point.

**Class Discussion.** You are expected to participate in each class discussion. If you have questions, ask them. If you have a response to another student’s question, offer it. If
you have a comment, make it. You will only learn by behaving, and the more you do in class, the more opportunities you’ll have for your behavior to be shaped.

**Problem Sets.** You will complete these per instructions contained on each problem set, and submit them at the beginning of the sessions for which they are indicated as due in the schedule below. A total of 10 points is possible for each correctly completed Problem Set submitted on time; up to 8 points for those submitted late. *Incorrect responses may be corrected and resubmitted once, for up to 1/2 credit for each corrected response.* Corrected problem sets will be accepted up to the time of the final examination; none will be accepted afterward.

**SAFMEDS Demonstrations.** At the beginning of each class session, you will privately demonstrate fluency with the SAFMEDS terms assigned for that week by responding correctly to each card within the specified time limit. Ten points are earned for responding correctly to all cards within the specified time limit; eight points for responding correctly to each card in more than the specified amount of time.

**Research Worksheets.** The Research Worksheet outline will be available on Blackboard, in Course Documents. You will complete five research worksheets for articles listed in the reading list. Research worksheets are due no later than at the beginning of the course sessions indicated below. Worksheets turned in on time or early can earn a total of 10 possible points each; those turned in late can earn up to 8 points each.

**Final Examination.** This test will consist of 50 items, and will be given as a pretest on the first night of class, and 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 scoring the pretest, your instructor will provide you with a breakdown of your scores per content area addressed by the test.

**Grading Scale**

<table>
<thead>
<tr>
<th>Assignment Type</th>
<th>Possible Points Each</th>
<th>Number for Assignment Type</th>
<th>Total Possible Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discussion Board Items</td>
<td>2 / Item</td>
<td>16 Items</td>
<td>32 points</td>
</tr>
<tr>
<td>Problem Sets</td>
<td>10 / set</td>
<td>7 sets</td>
<td>70 points</td>
</tr>
<tr>
<td>Research Worksheets</td>
<td>10 / worksheet 5</td>
<td>5 worksheets</td>
<td>50 points</td>
</tr>
<tr>
<td>SAFMEDS Demonstrations</td>
<td>10 / session</td>
<td>7 sessions</td>
<td>70 points</td>
</tr>
<tr>
<td>Final Exam</td>
<td>50 points</td>
<td>1 exam</td>
<td>50 points</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>272 points</td>
</tr>
</tbody>
</table>

A = 245 – 272 points  B = 218 – 244 points  C = 191 - 217 points  F < 191 points

**Schedule**

In the table below, *ABA* refers to the Cooper, Heron, and Heward text (*Applied Behavior Analysis*), *Ethics* to the *Ethics for Behavior Analysts* text, and *CT* refers to the *Controversial Therapies* text.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic / Objectives</th>
<th>Assignments Due / Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5.10 Week 1</td>
<td>Review Syllabus Pretest</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>Topic / Objectives</td>
<td>Assignments Due / Activities</td>
</tr>
<tr>
<td>-----------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>1.12.10</td>
<td>- Introduction to Single-subject design; - Measurement – Why bother? Direct Measures of Behavior: count, cumulative count, duration, rate, latency, interresponse time, extensity, intensity - Measurement – Indirect Measures of Behavior: accuracy, intensity, trials to criterion, percentage, percentage occurrence, percentage intervals occurrence, permanent products, and other estimates; Selecting appropriate measures; General data collection issues</td>
<td>Read CT Ch 1, 2, and 3; Read Ethics Preface &amp; Ch 1-3; pp38-39, 65-67, 81-82, 85-87, 90-100. Read ABA Ch 1, pp. 65 – 69, 73-80, 83-90</td>
</tr>
<tr>
<td>Week 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.19.10</td>
<td>Data Management: Graphic data display and graph preparation; maintaining data tables; data summary; equal interval graphs; cumulative count graphs; standard celeration charts</td>
<td>Problem Set 1 due Read CT Ch 4, 5, and 6; Respond to Discussion Board Items 1 and 2 on Blackboard Read ABA Ch 6 Do SAFMEDS list 1 – 25 correct in 1 minute</td>
</tr>
<tr>
<td>Week 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.26.10</td>
<td>General Issues in Measurement</td>
<td>Problem Set 2 Due Read CT Ch 7, 8, and 9; Respond to Discussion Board Items 3 and 4 on Blackboard Read Ethics pp. 60-64, 68-69 Read ABA Ch 7 Do SAFMEDS list 2 – 25 correct in 1 minute</td>
</tr>
<tr>
<td>Week 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.2.10</td>
<td>Withdrawal Designs (AB, ABA, ABAB, BAB, etc.); Component Analysis; Parametric Analysis; Alternating Treatments Designs</td>
<td>Problem Set 3 Due Read CT Ch 10, 11, and 12; Respond to Discussion Board Items 5 and 6 on Blackboard Read ABA pp. 177 - 194; Watson et al. (1985), Sindelar et al. (1985), &amp; McGonigle et al. (1987) Do SAFMEDS list 3 – 25 correct in 1 minute</td>
</tr>
<tr>
<td>Week 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.9.10</td>
<td>Multiple Baseline Designs; General Issues in Measurement and Experimental Design</td>
<td>Problem Set 4 Due Read CT Ch 13, 14, and 15; Respond to Discussion Board Items 7 and 8 on Blackboard; Read ABA Ch 5, 9, and 10 Do SAFMEDS list 4 – 25 correct in 1 minute</td>
</tr>
<tr>
<td>Week 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.16.10</td>
<td>Incorporating experimental design into clinical, educational, business, or other work Make Your Own Experiment Week!</td>
<td>Problem Set 5 Due Read CT Ch 16, 17, 18, and 19; Respond to Discussion Board Items 9 and 10 on Blackboard Do SAFMEDS list 5 – 25 correct in 1 minute</td>
</tr>
<tr>
<td>Week 7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.23.10</td>
<td>Reading Experimental / Applied Experimental Work and Developing a research project</td>
<td>Problem Set 6 Due Read CT Ch 20, 21, and 22; Respond to Discussion Board Items 11 and 12 on Blackboard Prepare and submit five research worksheets; present one research worksheet to class Do SAFMEDS list 6 – 25 correct in 1 minute</td>
</tr>
<tr>
<td>Week 8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.2.10</td>
<td>Measuring psychiatric symptoms and medication effects Review course objectives</td>
<td>Problem Set 7 Due Read CT Ch 23, 24, and 25; Respond to Discussion Board Items 13 and 14 on Blackboard Read Ethics Chapters 10 &amp; 12 Do SAFMEDS list 7 – 25 correct in 1 minute</td>
</tr>
<tr>
<td>Week 9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
EDSE 621 / Empirical Bases of Applied Behavior Analysis  
Spring 2010 / Page 7 of 7

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic / Objectives</th>
<th>Assignments Due / Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.9.10</td>
<td>Final Exam</td>
<td>EXTRA CREDIT! Read Chapters 26, 27, and 28; Respond to Discussion Board Items 15 and 16 on Blackboard</td>
</tr>
</tbody>
</table>

Contacting Your Instructor

You may contact Ms. Hoffman by phone at 240-603-5801 prior to 9 PM. You may also e-mail at mdougher@gmu.edu.

COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT STATEMENT OF EXPECTATIONS

All students will activate their George Mason University e-mail accounts. All e-mail communication pertaining to this course will be via GMU e-mail.

All students will receive feedback on their final exam performance by e-mail within three days, along with a Signature Assignment document. Students will then submit the Signature Assignment document sent to them by e-mail to Taskstream on receipt of the document. No student’s final grade will be submitted until the Signature Assignment document has been received by Taskstream and your instructor has received e-mail notification of this from Taskstream. Failure to submit this document to Taskstream will result in a failing grade for this course.

Students are expected to exhibit professional behavior and dispositions. See gse.gmu.edu for a listing of these dispositions.

Students must follow the guidelines of the University Honor Code. See http://www.gmu.edu/catalog/apolicies/#TOC_H12 for the full honor code.

Students must agree to abide by the university policy for Responsible Use of Computing. See http://mail.gmu.edu and click on Responsible Use of Computing at the bottom of the screen.

Students with disabilities who seek accommodations in a course must be registered with the GMU Disability Resource Center (DRC) and inform the instructor, in writing, at the beginning of the semester. See www.gmu.edu/student/drc or call 703.993.2474 to access the DRC.

Students will refrain from consuming intoxicating substances in any quantity on the day of class, prior to or during class. Any student suspected of having consumed intoxicants will be asked to leave class. The student will be asked to arrange for transportation away from Ivymount that does not involve the student operating a motor vehicle. Participation in this course indicates that the student understands and agrees to refrain from consuming intoxicants in any quantity on class days prior to or during class, to leave class at the request of the instructor if the instructor has reason to believe the student has consumed intoxicants, and to arrange for transportation away from Ivymount that does not involve the student operating a motor vehicle.