



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

Fall 2013

EDSE 590 001: Special Education Research

CRN: 77313, 3 - Credits

Instructor: Kelly Henderson, Ph.D.	Meeting Dates: 8/26/2013 - 12/18/2013
Phone:	Meeting Day(s): Tuesdays
E-Mail: khender8@gmu.edu	Meeting Time(s): 7:20 pm-10:00 pm
Office Hours:	Meeting Location: Loudoun, L1 232

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

Course Description

Describes fundamental concepts and practices in educational research in special education. Covers specific applications of educational research methods to problems in special education. Emphasizes review and critique of special education research, and applied classroom research for teachers.

Prerequisite(s): None

Co-requisite(s): None

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 students should contact the Special Education Advising Office at (703) 993-3145 for assistance. All other students should refer to their faculty advisor.

Nature of Course Delivery

Learning activities include the following:

1. 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

Learner Outcomes

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

- Identify and understand different methods of educational research suitable for different research purposes in special education.
- Describe and discuss basic theories and methods of quantitative experimental and quasi-experimental research in special education.
- Describe and discuss basic theories and methods of survey research in special education.
- Describe and discuss basic theories and methods of single subject research in special education.
- Describe and discuss basic theories and methods of qualitative research in special education.
- Critically evaluate education research and describe implications for educational practice.

Required Textbooks

American Psychological Association (2009). *Publication manual of the APA (6th ed.)*. Washington, DC: Author. ISBN: 1-4338-0562-6; ISBN 13: 978-1-4338-0562-2

McMillan, J.H. (2012). *Educational research: Fundamentals for the consumer (6th ed.)*. Boston: Pearson Education. ISBN-10: 0132596474; ISBN-13: 9780132596473

It is highly recommended that students bring the McMillan textbook to class each week as the instructor may make specific reference to it during class.

Other reading relevant to special education research applications will be assigned by the instructor as appropriate.

Additional Readings

As assigned, see Schedule.

Required Resources

This course uses a Blackboard-like **Organization** at MyMason online. This provides access to most of the assigned readings and other links of interest. Click on the Organizations tab at <https://mymasonportal.gmu.edu/webapps/portal/frameset.jsp>. Any documents in this syllabus that reference “Bb” are found on the Organization site. You must be enrolled in the Organization to have access. Email Dr. Henderson immediately if you cannot access it.

Digital Library Option

The Pearson textbook(s) for this course is available as part of the **George Mason University Division of Special Education and disAbility Research Digital Library**. The division and Pearson have partnered to bring you the Digital Library; a convenient, digital solution that can save you money on your course materials. The Digital Library offers you access to a complete digital library of **all Pearson textbooks** and MyEducationLabs used across the Division of Special Education and disAbility Research curriculum at a low 1-year or 3-year subscription price. Access codes are available in the school bookstore. Please visit <http://gmu.bncollege.com> and search the ISBN.

- 1 year subscription \$200 ISBN-13: 9781269541411
- 3 years subscription \$525 ISBN-13: 9781269541381
- Individual e-book(s) also available at the bookstore link above or at <http://www.pearsonhighered.com/>. Search by author, title, or ISBN.

Course Relationships to Program Goals and Professional Organizations

This course is part of the George Mason University, Graduate School of Education (GSE), Masters in Special Education Program. This program complies with the standards for teacher licensure established by the Council for Exceptional Children (CEC), the major special education professional organization. The CEC standards that will be addressed in this class include Standard 4: Instructional Strategies and Standard 9: Professional and Ethical Practice.

GMU POLICIES AND RESOURCES FOR STUDENTS:

- a. Students must adhere to the guidelines of the George Mason University Honor Code [See <http://oai.gmu.edu/honor-code/>].
- b. Students must follow the university policy for Responsible Use of Computing [See <http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/>].
- c. Students are responsible for the content of university communications sent to their George Mason University 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.
- d. The George Mason University Counseling and Psychological Services (CAPS) staff consists of professional counseling and clinical psychologists, social workers, and counselors who offer a wide range of services (e.g., individual and group counseling, workshops and outreach programs) to enhance students' personal experience and academic performance [See <http://caps.gmu.edu/>].

- e. Students with disabilities who seek accommodations in a course must be registered with the George Mason University Office of Disability Services (ODS) and inform their instructor, in writing, at the beginning of the semester [See <http://ods.gmu.edu/>].
- f. Students must follow the university policy stating that all sound emitting devices shall be turned off during class unless otherwise authorized by the instructor.
- g. The George Mason University Writing Center staff provides a variety of resources and services (e.g., tutoring, workshops, writing guides, handbooks) intended to support students as they work to construct and share knowledge through writing [See <http://writingcenter.gmu.edu/>].

PROFESSIONAL DISPOSITIONS

Students are expected to exhibit professional behaviors and dispositions at all times.

CORE VALUES COMMITMENT

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

For additional information on the College of Education and Human Development, Graduate School of Education, please visit our website [See <http://gse.gmu.edu/>]

Course Policies & Expectations

Attendance.

Students are expected to attend class and actively participate in all assignments, group activities, and class discussions. Active participation includes the asking of questions and the presentation of one's own understanding with regard to the readings and lectures as well as interactive discussion and participation in activities with other class members. This will require all students to complete the required readings, activities, and assignments for that specific class meeting.

While we all have busy lives as well as professional and personal commitments outside this course, you have made a commitment to be present for this course and to complete the requirements therein. If an extenuating circumstance was to occur and prevent you from attending class, please arrange to obtain notes and handouts from another student. Notify that person in sufficient time for them to be of assistance for you.

Late Work.

Points will be deducted for assignments not submitted on time (the beginning of the class meeting time). Generally, points equal to half of a letter grade are deducted for each class session past due.

TaskStream Submission

Every student registered for any Special Education course with a required performance-based assessment is required to submit this assessment, (NO ASSESSMENT REQUIRED FOR THIS COURSE) (regardless of whether a course is an elective, a onetime course or part of an undergraduate minor). Evaluation of the performance-based assessment by the course instructor will also be completed in TaskStream. Failure to submit the assessment to TaskStream will result in the course instructor reporting the course grade as Incomplete(IN). Unless the IN grade is changed upon completion of the required TaskStream submission, the IN will convert to an F nine weeks into the following semester.

If you have never used TaskStream before, you **MUST** use the login and password information that has been created for you. This information is distributed to students through GMU email, so it is very important that you set up your GMU email. For more TaskStream information, go to <http://cehd.gmu.edu/api/taskstream>

Grading Scale

A	=	95-100 points
A-	=	90 - 94 points
B	=	80 - 89 points
C	=	70 – 79 points
F	=	< 70 points

Assignments

NCATE/TaskStream Assignments.

None for EDSE 590.

Common Assignments.

In-class Pop Quizzes: To reinforce the textbook content and encourage thorough reading, Dr. Henderson will give unannounced pop quizzes that include questions similar or identical to the online practice tests. These pop quizzes will be given via the classroom's lab computers or in paper. At least three will be given throughout the semester and will be averaged and collectively contribute 10 points of your semester grade. There are no make-ups for these quizzes.

Critique of Research Article: There is one research article critique required. The article will be individually selected by each student and may be related to the research topic selected for the research application paper. When submitting a hard copy of the critique you have selected, the original article must be included. The copy of the original article is necessary so the instructor

will be able to review the article as necessary to evaluate the critique. Grading Rubric is available on Bb; *attach a blank, ungraded rubric* to your assignments.

CITI Module Completion: The CITI Module involves the completion of GMU **Mandatory Training for Persons Conducting Research Using Human Subjects** (“Group 1 Social & Behavioral Research, Basic Course”) that is accessed at <http://www.citiprogram.org>. Seven learner modules in the Basic Course are required prior to conducting any research at Mason using human subjects. In addition, if any of the optional modules relates to your research, you are can complete the appropriate module(s), 1 point each up to 3 extra credit points. These optional modules can only be opened after you finish the Basic Course. Copy certification of completion document and provide to Dr. Henderson in hard copy. No partial credit will be given on this assignment.

Quantitative Analysis: To increase familiarity with existing national and state data sources, students will identify and examine currently available data from one published national or state data source. In addition to examining and describing the data, students will write a “conclusions” section identifying and commenting on the major findings, with respect to their utility to school and classroom settings. A grading rubric is available on Bb; *attach an ungraded rubric* to your assignment.

Research Application Project: Students will employ appropriate research methodology to investigate a problem of interest in a classroom, using group-experimental or quasi-experimental, single-subject, survey, or qualitative methodology. Students will prepare a research report on this project using the format recommended by the Publication Manual of the American Psychological Association (6th ed.). This includes Title page; Abstract; Introduction and purpose; Method (participants, materials, procedures); Findings or Results; Discussion; References. A grading rubric is on Bb; *attach an ungraded rubric* to your assignment.

Research Presentation: Students will present the results of their research project to the class in a formal research presentation format. The presentation should not exceed 8 minutes, most of which should be spent on your method and findings. The use of audiovisual, posters, handouts, or other presentation materials is encouraged. Grading rubric is on Bb; *attach an ungraded rubric* to your assignment.

Other Assignments.

Additional assignments related to the application of the concepts of the course may be given in class as appropriate.

Individual Student Grade Sheet

	<i>Attendance participation</i>	<i>Critique</i>	<i>CITI module</i>	<i>Quant. Analysis</i>	<i>Pop Quizzes</i>	<i>Research Project</i>	<i>Research Presentation</i>	Total
Earn								
Points Poss.	10	10	10	15	10	35	10	100

Schedule

Tentative class schedule, subject to change:

Class	Date	Big Topics	Readings/Assignments Due
1	8/27	<ul style="list-style-type: none"> • Introductions • Start of Class Logistics • Introduction to Research in Education • Research Problems • Variables, Hypotheses, & Research Questions Introduction • Components of Research Report or Article • APA Writing Style • Research Problems in Special Education • Ethical Standards for Conducting Research • Implementing Research in Your Classroom • Quantitative and Qualitative Research Characteristics 	<ul style="list-style-type: none"> • McMillan – Chap. 1 & 2 • APA – Ch. 2; skim Ch. 1, 3 & 6 • “Teachers as Researchers” article, Babkie & Provost • Activate GMU email account and check that you can access Blackboard via MyMason Organization. Email me by 8 am Friday, August 30 if you cannot.
2	9/3	<ul style="list-style-type: none"> • Hypotheses – Generating and Writing • Begin Purpose and Steps for Conducting a Literature Review • Finish Purpose and Steps for Conducting a Literature Review • Primary and Secondary Sources • Writing a Review of the Literature 	<ul style="list-style-type: none"> • McMillan – Chap. 3 • Print out or be able to access electronic copies of “Research in Special Education...” by Odom et al. and “Peer Assisted Learning strategies” by Saenz, Fuchs & Fuchs • APA Editing Activity, in class

		<ul style="list-style-type: none"> • Characteristics of Quality Research Article Critiques 	
3	9/10	<ul style="list-style-type: none"> • Locating Literature • Educational Searches via the Internet • Identifying research sources 	<ul style="list-style-type: none"> • Presentation in Loudoun by Anne Driscoll, Education Liaison Librarian, GMU Fairfax Campus, Fenwick Library; suggest bringing laptops.
4	9/17	<ul style="list-style-type: none"> • Subjects, Participants, and Sampling • Probability and Non-probability Sampling • Descriptive Statistics: Definition and Essential Terms 	<ul style="list-style-type: none"> • McMillan Chap. 4 • Read “Research in Special Education: Scientific Methods and Evidence-Based Practices” (Winter 05 EC articles, Odom et al.)
5	9/24	<ul style="list-style-type: none"> • Validity and Reliability • Measurement, Evaluation, and Assessment • Educational Measures • Questionnaires, Observations, & Surveys 	<ul style="list-style-type: none"> • McMillan – Chap. 5 & 6
6	10/1	<ul style="list-style-type: none"> • Experimental and Non-Experimental Quantitative Research Designs • Descriptive, Comparative, & Correlational, & Causal-Comparative Studies • Validity: Internal & External • Types of Experimental Designs 	<ul style="list-style-type: none"> • Research Article Critique due • McMillan – Chap. 7 & 8 (except pp.238-242) • Read “Evaluating the Quality of Evidence from Correlational Research for Evidence-Based Practice” (Winter 05 EC article, Thompson et al.)
7	10/8	<ul style="list-style-type: none"> • National data resources/ review requirements for Quantitative Analysis assignment Introduction to statistical analyses • Making Statistical Inferences • Interpreting the Findings • Statistical Analysis software 	<ul style="list-style-type: none"> • McMillan, Ch. 9 •
	10/15		<ul style="list-style-type: none"> • Per GMU calendar, Tuesday classes do not meet this date (Monday classes meet)

8	10/22	<ul style="list-style-type: none"> Inferential Statistics Null Hypotheses Type 1 & Type 2 Errors Statistical Significance 	<ul style="list-style-type: none"> Read “Quality Indicators for Group Experimental and Quasi-Experimental Research in Special Education” (Winter 05 EC articles, Gersten et al.)
9	10/29	<ul style="list-style-type: none"> Single Subject Research Designs 	<ul style="list-style-type: none"> Read “The Use of Single-Subject Research to Identify Evidence-Based Practice in Special Education” (Winter 05 EC articles, Horner, et al.) McMillan – pp. 238-242 Quantitative Analysis due
10	11/5	<ul style="list-style-type: none"> Using individual student data 	<ul style="list-style-type: none"> Complete the module on data based decision making at http://mast.ecu.edu/modules/dbd/ (start at Introduction)
11	11/12	<ul style="list-style-type: none"> Qualitative Research Mixed Methods Design Action Research 	<ul style="list-style-type: none"> Read “Qualitative Studies in Special Education” (Winter 05 EC articles, Brantlinger et al.) McMillan – Chap. 10, 11, 12
12	11/19	<ul style="list-style-type: none"> Discussion Section of a Research Report: Interpretations, Conclusions, Recommendations, and Limitations Connecting the Results Back to the Hypothesis 	<ul style="list-style-type: none"> McMillan- Chap. 13 Read “Tips for Readers of Research- ‘Seeing Through’ the Graphs” and “Trouble with Research”, Bracey CITI Basic Course completion certificate due
13	11/26	<ul style="list-style-type: none"> Catch up on previous topics Individual consultation on final projects/ presentations 	<ul style="list-style-type: none">
14	12/3	<ul style="list-style-type: none"> Research Project Presentations End of Course Logistics 	<ul style="list-style-type: none"> Final project presentations
	12/10	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> EXAM date