# College of Education and Human Development

## Division of Special Education and disAbility Research

**Fall 2014**  
**EDSE 590 680: Special Education Research**  
**CRN: 81436, 3 - Credits**

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<tr>
<td>Phone:</td>
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<td>Meeting Day(s):</td>
<td>Tuesdays</td>
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<tr>
<td>E-Mail:</td>
<td><a href="mailto:chollan2@gmu.edu">chollan2@gmu.edu</a></td>
<td>Meeting Time(s):</td>
<td>4:30 pm-8:30 pm</td>
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<tr>
<td>Office Hours:</td>
<td>by appointment</td>
<td>Meeting Location:</td>
<td>Fairfax High School</td>
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**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.

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**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) 993-3670 for assistance. All other students should refer to their faculty advisor.
Nature of Course Delivery
1. Learning activities include the following:
2. Class lecture and discussion
3. Small group activities and assignments
4. Research and presentation activities

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

Digital Library Option
The Pearson textbook(s) for this course may be available as part of the George Mason University Division of Special Education and disAbility Research Digital Library. Please note that not all textbooks are available through this option. Visit the links below before purchasing the digital library to ensure that your course(s) text(s) are available in this format. 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](http://gmu.bncollege.com) and search the ISBN. To register your access code or purchase the Digital Library, visit: [http://www.pearsoncustom.com/va/gmu/digitallibrary/education/index.html](http://www.pearsoncustom.com/va/gmu/digitallibrary/education/index.html)

- 3 years subscription $525 ISBN-13: 9781269541381
- Individual e-book(s) also available at the bookstore link above or at http://www.pearsoncustom.com/va/gmu/digitallibrary/education/index.html

**Recommended Textbooks**
None

**Required Resources**
The instructor will communicate updates to the course schedule and additional reading through Blackboard. Students are advised to frequently check the Blackboard site for this course.

**Additional Readings**
As assigned by the instructor.

**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/the-mason-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 all class meetings prepared to participate in class discussion and activities. Students who miss more than two class sessions will not receive credit for the course.

Late Work. Assignments are due by the start of class on the assigned due date. There is a 10% per day grade penalty for work submitted late, regardless of the circumstances. The final paper will not be accepted late under any circumstance.

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

Article Analysis Papers (40%, 20% each)
Final Exam (20%)
Research proposal paper (40%)

Assignments

Performance-based Assessment (TaskStream submission required). There is no TaskStream assignment for this course.

Performance-based Common Assignments (No TaskStream submission required).

Research Proposal Paper
For the final assignment, students will develop a research question on a special education topic of their choice and design a research study using an appropriate methodology to answer their question. Though no data collection or analysis are required for this assignment, the research proposal should be sufficiently detailed that it could serve as a guide to carry out an actual study. The research proposal paper will utilize one of the research methodologies covered during the semester. The paper will be formatted according to the APA manual guidelines and include the following sections: literature review, methods (participants, measures, procedure), and validity and limitations. Papers will be approximately 10 to 15 pages in length.

Literature Review
The purpose of the literature review is to introduce the reader to the research question, strategically explore previous research in this area, and argue for the rationale of the present study. Students will cite a minimum of five original research articles published in peer reviewed journals in the literature review. Citations are limited to studies published in the last 10 years. The literature review should include the following components: a broad introduction to the research problem, a focused assessment and integration of previous research to provide justification for the present study, a statement of the research question(s), and research hypothesis. Students will be evaluated on clarity of written expression, strong justification of the significance of the research problem, thorough assessment of published research with strong integration of the research to establish a foundation for the proposed study, and strength of research questions according to the criteria established by McMillan. A thorough literature review is typically 4-6 pages in length.

Methods

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The methods sections will contain the following subsections: participants, measures, and procedure.

The participants section should include (a) a description of the population being examined, (b) a plan for selecting the sample from the population, (c) a rationale or justification of why the sampling method was selected, and (d) a hypothetical description of the participants selected. The description of the participants should include demographic data relevant to the proposed study.

The measures section will describe the key variables examined in your research and the materials or measures used to collect data on these variables. The description of the variables will contain both conceptual and operational definitions and specify both dependent and independent variables. In the description of the materials, APA formatted citations must be included for published measures.

The procedure section starts with a description of the specific type of research methodology to be utilized and a justification for this research methodology based on your research question. The procedure section will thoroughly describe each step in the execution of the research. Summarize or paraphrase instructions (if applicable). The description of the procedure should be sufficient to allow for exact replication of the study. It may be necessary to include study materials as appendices. The procedure for conducting the study should follow the type of research methodology selected. Students will not be required to collect actual data, but a plan for conducting analysis of the data should be included. Students will be evaluated on the strength of the experimental design.

**Validity, Limitations, and Anticipated Results**

In this section, students must address potential threats to internal and external validity as described in McMillan. Students will describe how they will address these threats. The discussion of validity should be specific to the type of research methodology selected. The student must also address the limitations of the current study and provide recommendations for future research that would address these limitations. The paper will conclude with a statement of the predicted results.

**Scoring Rubric**

A detailed scoring rubric will be provided by the instructor on the BlackBoard site. Work will be evaluated on content, writing style, and adherence to APA formatting standards.

**Other Assignments.**

**Article Analyses Papers**

Each student is required to submit two article analysis papers during the course of the semester based on a published academic research article that utilized the methodologies we will be studying. The purpose of this assignment is for students to learn to assess and critique the quality of published educational research and to communicate a summary of the most pertinent information.
Students will select a research article published in the last 5 years from a peer-reviewed academic journal. Students may use articles that will be included in the literature review for their final research paper. The first article analysis paper will be based on an article utilizing a true-experimental methodology. The second article analysis paper will be based on a qualitative methodology. Article analysis papers based on the incorrect methodology will not be accepted for credit. Students are encouraged to seek approval from the instructor for their chosen articles.

One of the key aspects of this assignment is to teach students to communicate the most important information from the study; therefore, there is a strict three page limit for the paper.

The paper will include a summary of the research problem, participants, experimental methodology, and findings (approximately 2 pages). This summary will be followed by a critique of the researcher’s execution of the experimental methodology (approximately 1 page). The specific focus of the critique will depend on the selected article. Students should refer to McMillan’s guidelines for assessing published research. For example, the critique may examine several of the following elements:

- The fit between the research problem and the research methodology or design
- Appropriate or inappropriate use of data collection instruments
- The author’s attention to rigorous data collection procedures and data analysis
- Apparent flaws in execution of the research
- Quality of sampling procedure, description of participants or inclusion criteria for participants

Papers will be evaluated on selection of an appropriate research article, clarity of written expression, demonstration of understanding of the research methodology and execution, thorough assessment of the strengths and weaknesses of the article, and correct usage of APA formatting.

Paper Format:
- APA formatted cover sheet
- Article assessment (3 pages)
- APA formatted reference page

Final Exam
Students will take a final exam. The exam will cover all reading assignments and class lectures.

Schedule
September 9
Topic: Introduction to Research in Education

September 16
Topic: Research Problems, Variables, and Hypotheses
Reading: McMillan chapter 1 and 2
**September 23**  
Topics: The Literature Review; Participants, Subjects and Sampling  
Reading: McMillan chapter 3 and 4

**September 30**  
Topic: Nonexperimental Quantitative Research Designs  
Reading: McMillan chapter 7

**October 7**  
Topic: Experimental Research Designs  
Reading: McMillan chapter 8

**October 14**  
Topics: Educational Measurement; Data Collections Techniques  
Reading: McMillan chapters 5 and 6  
Assignment Due: Article Analysis 1

**October 21**  
Topic: Qualitative Research Designs  
Reading: McMillan Chapter 10

**October 28**  
Topics: Mix-Method and Action Research; Review for Final Exam  
Reading: McMillan chapters 11 and 12  
Assignment Due: Article Analysis 2

**November 4: No formal class meeting: Independent study for final exam and final papers.**

**November 11**  
Final papers due at the start of class.  
Final exam.