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

Spring 2016  
EDSE 842 001: Application of Research Methodology in Special Education  
CRN: 10465, 3 - Credits  

<table>
<thead>
<tr>
<th>Instructor: Dr. Anna Evmenova</th>
<th>Meeting Dates: 01/19/16 - 05/11/16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone: 703-993-5256</td>
<td>Meeting Day(s): Tuesday</td>
</tr>
<tr>
<td>E-Mail: <a href="mailto:aevmenov@gmu.edu">aevmenov@gmu.edu</a></td>
<td>Meeting Time(s): 4:30 pm-7:10 pm</td>
</tr>
<tr>
<td>Office Hours: by appointment</td>
<td>Meeting Location: Fairfax; Finley 119</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.

Course Description  
Provides knowledge and skills in the application of research methodology in special education. Topics include methods for conducting survey research, experimental and quasi-experimental research, research involving correlation and regression, and qualitative research. Emphasizes application to specific issues in special education research.  
Hours of Lecture or Seminar per week: 3  
Hours of Lab or Studio per week: 0  

Prerequisite(s): Admission to PhD in education program, or permission of instructor  
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  
Evmenova - EDSE 842 001: Spring 2016
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. Written plans for a research study using the American Psychological Association format
7. Electronic supplements and activities via Blackboard

Learner Outcomes
Upon completion of this course, students will be able to:
• Describe the strengths and limitations of single subject research designs in special education research.
• Describe basic procedures involving single subject research designs.
• Evaluate previous research that has employed single subject research methodology.
• Design future special education research using single subject methodology.
• Describe the strengths and limitations of qualitative research designs in special education research.
• Evaluate previous research that has employed qualitative research methodology.
• Design future special education research using qualitative methodology.
• Describe the strengths and limitations of survey research designs in special education research.
• Evaluate previous research that has employed survey research methodology.
• Design future special education research using survey methodology.
• Describe the strengths and limitations of group-experimental research designs in special education research.
• Describe basic procedures involving group-experimental research designs.
• Evaluate previous special education research that has employed group-experimental research methodology.
• Design future special education research using group-experimental methodology.

Required Textbooks
None

Digital Library
Effective summer 2015, the Division of Special Education and disAbility Research will discontinue the use of the Pearson Digital Library. No further registrations will be accepted. Students who hold current subscriptions will continue to have access to the library for the
remainder of their subscription time. However, no further updates will be made to the digital library. During this time, should a textbook be revised or a new book is adopted for a class where the text is included in the digital library, Pearson will have options available to you and will provide you with an individual e-text or, if there is no e-text, a printed copy. Students, who have purchased a 3-year subscription directly through Pearson Education, will also have an option to obtain a prorated refund. However, 3-year subscription access cards purchased via the GMU bookstore will need to speak with a George Mason Bookstore Representative. Please be aware that the issuance of a refund, in this case, is at the discretion of the George Mason bookstore. Concerns or questions may be directed to Molly Haines at Molly.Haines@pearson.com.

**Recommended Textbooks**

APA Manual


**Required Resources**

An article readings list (to be downloaded from GMU library) provided below and posted on Backboard will correspond to the syllabus schedule.

**Additional Readings**

Additional readings may be provided by the instructor throughout the semester as appropriate to support discussions.

**Course Relationships to Program Goals and Professional Organizations**

This course is part of the George Mason University, College of Education and Human Development (CEHD), Graduate School of Education, Special Education, CEHD PhD in Education Program. This program complies with university and program standards.

**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 George Mason University Disability Services and inform their instructor, in writing, as soon as possible. Approved accommodations will begin at the time the written letter from Disability Services is received by the instructor. 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.

Due to the importance of lecture and discussion to the total learning experience, students are encouraged to both attend and participate in class regularly. Attendance, punctuality, preparation, and active contribution to small and large group efforts are essential. These elements will reflect the professional attitude implied in the course goals and will account for 13% of the course grade. Students who must miss a class must notify the instructor (preferably in advance) and are responsible for completing all assignments and readings for the next class.

Late Work.

All assignments must be submitted on or before the assigned due date. In fairness to students who make the effort to submit work on time, 5% of the total assignment points will be deducted each day from your grade for late assignments.

Tk20 Performance-Based Assessment Submission Requirement
Every student registered for any Special Education course with a required performance-based assessment is required to submit the (NO ASSESSMENT REQUIRED FOR THIS COURSE) to Tk20 through Blackboard (regardless of whether the student is taking the course as an elective, a onetime course or as part of an undergraduate minor). Evaluation of the performance-based assessment by the course instructor will also be completed in Tk20 through Blackboard. Failure to submit the assessment to Tk20 (through Blackboard) will result in the course instructor reporting the course grade as Incomplete (IN). Unless the IN grade is changed upon completion of the required Tk20 submission, the IN will convert to an F nine weeks into the following semester.

Grading Scale
95-100% = A
90-94% = A-
87-89% = B+
83-86% = B
80-82% = B-
70-79% = C
< 70% = F

Assignments
   Performance-based Assessment (TK20 submission required).
      NONE

   Performance-based Common Assignments (No TK20 submission required).
      See below

Other Assignments.

Class Participation (13 points)

1. Professional Behavior: For a satisfactory grade in the course, students are expected to attend all classes, arrive on time, be prepared for class, demonstrate professional behavior (see Professional Disposition Criteria at http://www.gse.gmu.edu for a listing of these dispositions), and complete all assignments with professional quality in a timely manner. To successfully complete this course, students need to adhere to the due dates for specific readings and assignments to be completed. If you feel you cannot adhere to the schedule noted in the syllabus, please contact the Instructor immediately to discuss options for withdrawing and completing the course during another semester.

2. Laptops, cell phones, PDAs and all other electronic devices should be silenced during class time. If you choose to use your personal laptop for note taking, I ask that you utilize it for that purpose only (not for surfing the web, checking email, etc.).
3. Promptness: All assignments must be submitted on or before the assigned due date. In fairness to students who make the effort to submit work on time, 5% of the total assignment points will be deducted each day from your grade for late assignments.

4. Written Products: All written assignments must be prepared in a professional manner following guidelines stated in the Publication Manual of the American Psychological Association (6th edition). All final products must be typed. Products that, in the judgment of the instructor, are unreadable or unprofessionally prepared will be returned un-graded or assigned a lower evaluation.

**PLEASE expect to verbally participate, effectively listen during every class session, and encourage discussion of your peers.**

**Comparative Methodological Table (18 points)**

This table should be a graphic organizer that depicts characteristics for each of the following research methodologies: qualitative, single-subject, and survey research.

The table should include the following headers for each research method (at least): *Purpose* (apart from other methods; why this methodology specifically over others?); *Data Sources* (identify the types of data sources typical of this methodology); *Strengthen Internal Validity* by... (How do you strengthen internal validity? Procedures? Steps?); *Strengthen External Validity* by... (How do you strengthen internal validity? Procedures? Steps?); *Establish Reliability* by... (How do you establish reliability?)

You can feel free to add additional headers/columns to the comparative methodological table. The ten points should include accuracy in those headers provided above. This table is to be completed independently but it is expected that individuals will use class materials, resources, lectures, discussions, to support completion of this assignment. A rubric will be provided in class.

**One Methods Section (40 points)**

One paper inclusive of a complete methods section is to be completed. The student may select any of the following methodologies: *single-subject, qualitative, or group-experimental or quasi-experimental methods*. The paper should be about 8-10 page max., double –spaced, for each proposal (NOT including title page, abstract, and references). The paper will be evaluated for APA (6th ed.) format. Provide a title for your paper. Provide brief introduction. Then, subsequent subheadings should ordinarily include the following:

- Background Literature (brief)
- Purpose Statement
- Research Questions
- Method
  - Participants
  - Setting
  - Materials/Instrument
• Procedures
  o Data Sources
• Data analysis
• Anticipated Results/Discussion
• References

RUBRIC FOR METHOD SECTION ASSIGNMENT
(30 points for content; 10 points for mechanics, grammar, APA)

Exemplary Paper
  (Content - 30 points): Appropriate topic, thorough description of participants, data sources, and procedures. Adequate design, analysis, and general understanding/interpretation of the relevant methodology; excellent incorporation of QIs
  (Mechanics – 10 points): clearly and directly written, good writing style, free of mechanical or stylistic errors, appropriate and correct use of APA format.

Adequate Paper
  (Content – 27-29 points): Good overall paper, lacking in one or two of the criteria for an exemplary paper, and/or may have neglected specific components relevant to the relevant methodology; addresses some but neglects significant QIs
  (Mechanics – 8-9 points): Not entirely clear and thorough, minor writing style or APA format errors may be present;

Marginal Paper
  (Content – 24-26 points): Overall, acceptable but with one or more significant problems. Contains some useful information, but may have substantial problems with the evaluation, or unclear or inappropriate description of methodology.
  (Mechanics – 6-7 points): Substantial problems with writing style/APA format

Inadequate Paper
  (Content < 24 points): Paper with substantial problems in important areas such as writing, description of participants, data sources, procedures, data analysis, or overall thoughtfulness; contains little or no information of value to the field of education.
  (Mechanics- 4-5 points): Writing lacks organization, subheadings, limited APA format
Unacceptable/no paper (0 points): Paper with no value whatsoever relative to the assignment, or no paper turned in at all.

Peer Exchange Feedback (15 points)

Each student will provide another student with his her final methods paper. The task is to provide thorough feedback to the peer using track changes. Comments and suggestions made should consider the quality indicators and elements of quality research designs and/or considerations of special education research. A rubric will be provided in class.

Final Exam (14 points)
The final exam will be completed in class. Responses to open-ended prompts will be typed and provided to the instructor at a designated due date (see schedule). Responses on exam should not be discussed among peers but course materials, resources, and readings may be used to support the responses.

**RUBRIC FOR FINAL EXAMINATION**

For each open-ended test item:

**Exemplary response (2 points):** Provides direct and thorough response to question, defines relevant terms, and provides specific examples or instances of the concepts being discussed. Answer is directly reflective of lecture, readings, activities, or assignments, or other material of direct relevance to class.

**Adequate response (1.5 points):** Provides direct and relevant response to question, provides accurate information directly relevant to class readings, notes, or activities; may provide less information, less elaboration, or a less thoughtful overall response than an exemplary response.

**Marginal response (1 point):** Provides some relevant information, but does not demonstrate overall a clear or complete understanding of the relevant concepts.

**Evaluation (see rubrics)**

1. Attendance/participation: 13 points
2. Comparative Methodological Table: 18 points
3. One Methods section: 40 points
4. Peer Exchange: Feedback 15 points
5. Final Exam 14 points

**Total:** 100 points

**Schedule**

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<tr>
<th>Date</th>
<th>Class Topic</th>
<th>Reading &amp; Assignments Due</th>
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<tr>
<td>Tuesday, January, 19</td>
<td>Introduction/Organization: Pretest; research traditions; common methodological concerns; nomothetic vs ideographic methods; causation; internal and external validity; dependent and independent variables; what’s published in special education?</td>
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<tr>
<td>Date</td>
<td>Topic</td>
<td>Reading Material</td>
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| Tuesday, February 2 | Qualitative Research designs: Quality Indicators          | McDuffie & Scruggs (2008)  
                    |                                                             | Braintlinger, Jiminez, Klinger, Pugach & Richardson (2005) |
| Tuesday, February 9 | Qualitative Research: Application of the QIs and NVivo demo | Leko & Brownell (2011)                                                        |
| Tuesday, February 16 | Survey Research                                          | Weston, Curran, Majsterek, & Prigge (2010)  
                    |                                                             | Burns & Ysseldyke (2009) |
| Tuesday, February 23 | Single-Subject Research: QIs                             | Horner, Carr, Halle, McGee, Odom, & Wolery (2005)  
                    |                                                             | Regan, Mastropieri, & Scruggs (2005) |
| Tuesday, March 1 | Single Subject Research: Application of QIs               | Lane, Kalberg, & Shepcaro (2009)  
| Tuesday, March 8th | No Class – Tuesday, March 8th (Spring Break)              |                                                                                                    |
| Tuesday, March 15 | Mixed Methods Research                                    | Klingner & Boardman (2011)  
                    |                                                             | Bishop, Brownell, Klingner, Leko, & Galman (2010) |
| Tuesday, April 5 | Group Experimental: QIs; Assumptions of ANOVA, SPSS tutorials: Descriptive Percent, One- Way ANOVA, Paired t-tests, Paired samples t-test | Gersten, Fuchs, Compton, Coyne, Greenwood, & Innocenti (2005)  
<pre><code>                |                                                             | Cook, Cook, Landrum, &amp; Tankersley (2008) |
</code></pre>
<p>| Tuesday, April 12th | No Class – Tuesday, April 12th (Council for Exceptional Children Conference) |                                                                                                    |
| Tuesday, April 19 | Group Experimental: Application of QIs                    | Marshak, Mastropieri, &amp; Scruggs (2011)                                                        |
|                  | Guest Speaker: Sarah Nagro                                |                                                                                        |</p>
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<tr>
<th>Date</th>
<th>Event</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>Tuesday, April 26</td>
<td>Peer Feedback</td>
<td>Method Section Drafts Due</td>
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<tr>
<td>Tuesday, May 3</td>
<td>Final Exam</td>
<td>Method Sections are Due</td>
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Appendix
Required Readings


