



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

Spring 2013

EDSE 590 670: Special Education Research

CRN: 20704, 3 - Credit(s)

<b>Instructor:</b> Dr. Nicole Conners	<b>Meeting Dates:</b> 03/13/13 - 05/15/13
<b>Phone:</b> 571-423-4178	<b>Meeting Day(s):</b> Wednesdays
<b>E-Mail:</b> nconners@gmu.edu	<b>Meeting Times:</b> 4:30PM-9:00PM
<b>Office Hours:</b> By appointment, please schedule as needed	<b>Meeting Location:</b> Chantilly High School, Room TBD

***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**

McMillan, J.H. (2012). *Educational Research: Fundamentals for the consumer*, 6th edition, Washington DC: Pearson. ISBN 978-0-13-259647-3

American Psychological Association. (2010). *Publication Manual of the American Psychological Association*, 6th edition, Washington DC: American Psychological Association. ISBN 9781433805615 **[Make sure you get the "2nd printing." First printing had errors.]**

### **Additional Readings**

Other readings, including special education research studies, will be assigned by the instructor and posted on Blackboard.

### **Course Relationship 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 are listed on the following website: <http://www.cec.sped.org/Content/NavigationMenu/ProfessionalDevelopment/ProfessionalStandards/>. 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://academicintegrity.gmu.edu/honorcode/>].
- b.* Students must follow the university policy for Responsible Use of Computing [See <http://universitypolicy.gmu.edu/1301gen.html>].
- 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.**

**Attendance:** students are expected to (a) attend all classes during the course (b) be actively involved in on-line activities (c) arrive on time and stay for the duration of class time. Lack of attendance and professional participation at all sessions (online and in class) with significantly diminish the impact of the course and interfere with creating a collaborative learning community. As such, absences from any portion of the course are strongly discouraged. Lack of participation by a student for any two weeks will result in a recommendation that the student drop the course(s). **Please notify me *in advance* by phone or email if you will not be able to attend class.**

**Withdraw:** If you are unable to meet the participation requirements of the course(s) it is strongly recommended that you drop the course. Withdrawing from the course is not an automatic process. You must inform the instructor in writing if you wish to withdraw from the course. Failure to notify the instructor will result in an “F” on your official George Mason University transcript.

### **Late Work.**

**Workload:** In-depth reading, study, and work on course requirements require outside class time. Students are expected to allot class study and preparation time weekly in addition to time spent on papers and assignments. **The result of late work will be the loss of 10 points per day until the assignment is received by the instructor.** Individual situations will be addressed with students outside of class.

### **Other Course Expectations.**

**Written and Oral Language:** **APA Style** is the standard format for any written work in the College of Education. If you are unfamiliar with APA, it would benefit you to purchase the Publication Manual of the American Psychological Association (6th ed.) You are required to use APA guidelines for all course assignments. This website links to APA format guidelines: <http://apastyle.apa.org>

**SUPPORT SESSIONS** will be provided periodically during this EDSE 590 course. If you are struggling on course assignments or would like extra support/work time with the instructor please take advantage of the extra work sessions. Dates will be provided once the course is underway. **These are voluntary help sessions.**

- **Academic Integrity:** Students in this course are expected to exhibit academic integrity at all times. Be aware that plagiarism is presenting someone else's work as your own. Whether the act is deliberate or unintentional is irrelevant. You must take great care to give credit to an author when you borrow either exact words or ideas. Generally, if you use 4 or more words in a row you should use quotation marks and a proper APA citation. Remember that plagiarism is a very serious offense and can result in dismissal from the University. **Evidence of plagiarism or any other form of cheating in the class will result in a zero on that assignment and a report of the incident to the Dean's Office.**

## Grading Scale

A = 95-100%

A- = 90-94%

B = 80-89%

C = 70-79%

F = <70%

## Assignments

### NCATE/TaskStream Assignments.

#### **100 points: Research Paper: Completion of 1 of 2 options:**

**Option 1:** Written research application project (\***action research** with a class or other type of application study)

**Option 2:** A 15-20-page literature review paper (\*based on current literature)

### Common Assignments.

N/A

### Other Assignments.

#### **90 points: Class Attendance and Participation (10 points each class)**

Completion of weekly class activities, participation in class discussions, and project presentation update discussions throughout the semester. Weekly warm-ups and closure activities will be included in class participation points. **Points missed due to absences can not be made up. Excessive absences can result in additional penalties and potential withdrawal from class.**

#### **50 points: Research Article Summary**

Completion of a recent research study (last five years) that you could possibly extend and replicate for your own application study. Please use the “how to summarize research article” to understand the components of a good article summary. You will use this similar format for your literature review in your final project. You must identify the purpose of the study, the participants and methods, results of the study, discussion and limitations, and future research implications. Be sure to address the major components of a study: purpose, methods-participants, materials, process/procedures, results of study, discussion, etc....

#### **60 points: Human Subjects**

**30 pts:** Completion of GMU **Mandatory** Training for Persons Conducting Research Using Human Subjects 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 the information in any of the optional modules relates to your research, you are required to complete the appropriate module.

**30 pts:** Completion of a GMU Human Subjects Application Form that is available on website:

<http://www.gmu.edu/research/ORSP/HumanFormsAndInstructions.html>

**100 points: Final exam (take home exam)** Provided on the second night of class and may be worked on throughout the course.

**100 points: Poster & Poster Sessions Presentation** Final presentation of research project or literature review paper.

## ASSIGNMENTS

### *Research Article Summary (50 points)*

Completion of a recent research study (last five years) that you could possibly extend and replicate for your own application study. Please use the “how to summarize research article” to understand the components of a good article summary. You will use this similar format for your literature review in your final project. You must identify the purpose of the study, the participants and methods, results of the study, discussion and limitations, and future research implications. Be sure to address the major components of a study: purpose, methods-participants, materials, process/procedures, results of study, discussion, etc....**DUE April 10<sup>th</sup>.**

### *Human Subjects Assignments--Training Modules for Persons Conducting Research Using Human Subjects (30 points)*

GMU Mandatory Training for Persons Conducting Research Using Human Subjects

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 the information in any of the optional modules relates to your research, you are required to complete the appropriate module. **You will turn in a copy of the printed certificate on the due date provided to show completion of the seven modules in the basic course. DUE April 17<sup>th</sup>.**

### *GMU Human Subjects Research Application Form (30 points)*

The research application project is designed to provide experience with the GMU requirements for conducting research with human subjects. **DUE April 17<sup>th</sup>.**

***Scoring Rubric for GMU Human Subjects Research Application***

Exemplary application (30 points): Appropriate and clearly described answers to questions including: implementation procedures, careful measurement and evaluation of results, thorough and appropriate discussion of implications of findings. Good writing style, free of mechanical or stylistic errors, appropriate use of APA format.

Adequate application (24-29 points): Good overall proposal, lacking in one or two of the criteria for an exemplary paper. Not entirely reflective or thoughtful, may be vague in some place, or minor writing style errors may be present.

Marginal application (21-23 points): Overall, acceptable but with one or more significant problems. Contains some useful information, but may have substantial problems with evaluation, writing style, or implementation of project.

Inadequate application (1-20 points): Proposal with substantial problems in important areas such as writing, implementation of intervention, evaluation of results, overall thoughtfulness. Does not adequately respond to questions.

Unacceptable/no application (0 points): Completely unsatisfactory proposal; or no proposal made.

Exemplary application	Adequate application	Marginal application	Inadequate application	Unacceptable/no application
30	24-29	21-23	1-20	0

***Take Home Final Exam (100 points)***

At the beginning of the class you will receive a take home final exam. You will choose when to work on the exam~ either through the length of the course or at the end of the semester. **My recommendation is that you work on the final exam through the entire length of the course as topics/questions are discussed. DUE May 8<sup>th</sup>.**

**Final Project DUE—LAST NIGHT OF CLASS- May 15<sup>th</sup>.**

*Option 1: Research Application Project (100 points) (you may work with a partner on the final project)*

The research application project is designed to provide experience in designing, implementing, and evaluating a research application project in special education. Any of the research designs covered are appropriate. Specific guidelines for the assignment will be provided. **Be sure to have your research question and design approved by the instructor PRIOR to beginning implementation of your project. A hard copy AND an electronic copy of the project should be submitted by 4:30 pm on the due date.**

***Scoring Rubric for Research Application Project (100 points)***

Exemplary paper (95-100 points): Appropriate topic, thorough and thoughtful review of previous research, appropriate and clearly described implementation procedures, careful measurement and evaluation of results, thorough and appropriate discussion of implications of findings. Good writing style, free of mechanical or stylistic errors, appropriate use of APA format.

Adequate paper (85-94 points): Good overall paper, lacking in one or two of the criteria for an exemplary paper. Not entirely reflective or thoughtful, or minor writing style errors may be present.

Marginal paper (70-84 points): Overall, acceptable but with one or more significant problems. Contains some useful information, but may have substantial problems with evaluation, writing style, or implementation of project.

Inadequate paper (1-69 points): Paper with substantial problems in important areas such as writing, implementation of intervention, evaluation of results, overall thoughtfulness. Contains little or no information of value to special education practice.

Unacceptable/no paper (0 points): Paper with no value whatsoever relative to the assignment, or no paper turned in at all. May describe a project of no value that was not approved for this assignment.

Exemplary paper	Adequate paper	Marginal paper	Inadequate paper	Unacceptable/no paper
95-100	85-94	70-84	1-69	0

***Option 2: Library Research Literature Review (100 points)***

You may select to complete a literature review. You may select to complete a traditional research literature review paper of a selected intervention area. You will need to collect 20 original research studies on a particular topic to include in your review paper (from journals or electronic journals). Specific guidelines will be provided. **Have your topic approved prior at the beginning of your research process. A hard copy AND an electronic copy of the project should be submitted by 4:30 pm on the due date.**

### ***Scoring Rubric for Library Research Literature Review***

Exemplary paper (95-100 points): Appropriate topic, thorough and thoughtful review of previous research. Good writing style, free of mechanical or stylistic errors, appropriate use of APA format.

Adequate paper (85-94 points): Good overall paper, lacking in one or two of the criteria for an exemplary paper. Not entirely reflective or thoughtful, or minor writing style errors may be present.

Marginal paper (70-84 points): Overall, acceptable but with one or more significant problems. Contains some useful information, but may have substantial problems with evaluation, writing style, or review of relevant literature.

Inadequate paper (1-69 points): Paper with substantial problems in important areas such as writing, evaluation of research, overall thoughtfulness. Contains little or no information of value to special education practice.

Unacceptable/no paper (0 points): Paper with no value whatsoever relative to the assignment, or no paper turned in at all. May describe a literature of no value or relevance, or that was not approved for this assignment.

Exemplary paper	Adequate paper	Marginal paper	Inadequate paper	Unacceptable/no paper
95-100	85-94	70-84	1-69	0

### **Poster & Poster Sessions Presentation (100 points)**

**DUE —LAST NIGHT OF CLASS DUE - May 15<sup>th</sup>.**

1. Make a brief (15-minute) poster presentation that summarizes your written research project or literature review. Be prepared to answer questions about your project. More details will be provided about the format for posters. ***Examples of projects/posters will be provided in class.***
2. Prepare visual materials/poster for use in your presentation –copies of charts, graphs and photos, etc...

### ***Scoring Rubric for Poster and Presentations***

Exemplary poster & presentation (95-100 points): Poster clearly describes major elements of the project; poster reflects clarity, organization, knowledge and interest in the content being presented; reflects a high level of preparation; makes effective use of visual format and presents an interesting, attractive appearance; describes very clearly the methods under consideration; presentation keeps the audience engaged; provide information of interest and value to audience. Presenter is able to answer basic audience questions about the proposal with poise, clarity, and thoughtfulness.

Adequate presentation (85-94 points): Good overall poster presentation, but may be lacking in one or two of the criteria specified in exemplary response. May seem a little less polished or prepared, may be vague in some places, or may fail to completely answer audience questions.

Marginal presentation (70-84 points): Poster presentation provides relevant information, but demonstrates only a limited understanding of the topic or project. Style, organization, or visual elements may be less than adequate. Responses to audience questions may reflect lack of understanding of relevant research methods.

Inadequate presentation (1-69 points): Weak overall presentation that reflects very little knowledge of topic or project. May appear very poorly prepared, or may not have followed directions. Style or visual elements may be inadequate or lacking.

Unacceptable/no presentation (0 points): Completely unsatisfactory presentation, with no reasonable reference to topic or project; or no presentation made.

Exemplary poster & presentation	Adequate poster & presentation	Marginal poster & presentation	Inadequate poster & presentation	Unacceptable/no poster and/or presentation
95-100	85-94	70-84	1-69	0

## Schedule

Date	Class Topic & Reading Assignments	Class Activities/Assignments
<b>Class 1</b> March 13 <sup>th</sup>	<b>Course Overview</b>  Review syllabus  Quantitative/Qualitative Research Methodology Overview	<b>Assignments Due:</b>  **Read Chapter 12 after class tonight  <b>Class Assignments: Varied Activities</b>

	<p>What teachers think of research-based practices (research article discussion)-teacher perspectives</p> <p>List of Special Education Journals</p> <p>Searching databases</p>	<p>Opening Activity-research methodology</p> <p>Quantitative/Qualitative Word Sorts</p> <p>Research-based practices article and summary</p>
<p><b>Class 2</b> March 20<sup>th</sup></p>	<p>Replicating and extending an existing study</p> <p>Action Research- is your teaching effective? If not, now what?</p> <p>Qualitative Research: Spotlight on survey designs and creating surveys for your application project</p>	<p><b>Assignments Due:</b></p> <p>Please read Chapters 1, 2, 3, 7, using surveys in non-experimental research (pp.196-202), &amp; Chapter14</p> <p><b>Class Assignments:</b></p> <p>N/A</p>
<p><b>NO CLASS</b></p>	<p><b>SPRING BREAK—March 27<sup>th</sup></b></p>	
<p><b>Class 3</b> April 3<sup>rd</sup></p>	<p><b>Qualitative Research: Research Designs and Analysis and Reviewing the literature and defining a question to explore</b></p> <p>Replicating and extending an existing study</p> <p>Qualitative Research designs</p> <p>Conducting a literature review</p> <p>Introduction to Protection of Human Subjects in Research On-line modules (CITI)</p> <p>Human Subjects requirements-models/samples</p>	<p><b>Assignments Due:</b></p> <p>Please read Chapter 7-using surveys in non-experimental research, Chapter 4 &amp; 6</p> <p>Chapter 10</p> <p><b>Come to class with a topic or idea for final project</b></p> <p><b>Class Assignments:</b></p> <p>Practice qualitative coding activity</p>
<p><b>Class 4</b> April 10<sup>th</sup></p>	<p><b>Quantitative Research: Research Designs</b></p> <p>Nonexperimental and experimental research designs: survey, single subject, experimental</p>	<p><b>Assignments Due:</b></p> <p>Work on application project or literature review</p> <p>Chapters 7, 8, &amp; 11</p>

	and correlational designs)  <b>Final projects</b> - we will spend time getting started on this process	<b>Class Assignments:</b>  <b>Research study summary due</b>  <b>Provide topic/idea for final project</b>
<b>Class 5</b> April 17 <sup>th</sup>	<b>Quantitative Research: Research Designs continued</b>  Quantitative/Qualitative Research Data Analysis  Educational Measurement and Measures and <b>Statistical Inferences</b>	<b>Assignments Due:</b>  Work on application project or literature review  Read Chapters 5 & 9  <b>CITI Program Human Subjects Certification due.</b> <b>Email certificate to: <a href="mailto:Nicole.Conners@fcps.edu">Nicole.Conners@fcps.edu</a></b>  <b>HSRB application due.</b>
<b>Class 6</b> April 24 <sup>th</sup>	<b>Quantitative Research: Research Designs continued</b>  Quantitative/Qualitative Research Data Analysis  Educational Measurement and Measures and <b>Statistical Inferences</b>  <b>Bring in draft papers/projects</b> - we will spend time reviewing/working	<b>Assignments Due:</b>  Work on application project or literature review  Read Chapters 5 & 9
<b>Class 7</b> May 1 <sup>st</sup>	Discussion and Conclusions Sections  <b>Bring in draft papers/projects</b> - we will spend time reviewing/working	<b>Assignments Due:</b>  Work on application project or literature review  Chapter 13 & 14
<b>Class 8</b>	<b>Work on papers and posters</b>	Work on application project or literature review

May 8 <sup>th</sup>	<b>Action Research Revisited</b>	Work on posters <b>TAKE HOME FINAL EXAM DUE</b>
<b>Class 9</b> May 15 <sup>th</sup>	<b>LAST CLASS!</b> <b>PROJECT PRESENTATIONS</b> —poster sessions for final projects	<b>Assignments Due:</b> <b>PROJECTS/PAPERS AND POSTERS DUE</b> <b>Poster Presentations</b>

## Appendix

### *FIRST OPTION FOR SIGNATURE ASSIGNMENT:*

#### *Scoring Rubric for Research Application Project (100 points)*

Exemplary paper (95-100 points): Appropriate topic, thorough and thoughtful review of previous research, appropriate and clearly described implementation procedures, careful measurement and evaluation of results, thorough and appropriate discussion of implications of findings. Good writing style, free of mechanical or stylistic errors, appropriate use of APA format.

Adequate paper (85-94 points): Good overall paper, lacking in one or two of the criteria for an exemplary paper. Not entirely reflective or thoughtful, or minor writing style errors may be present.

Marginal paper (70-84 points): Overall, acceptable but with one or more significant problems. Contains some useful information, but may have substantial problems with evaluation, writing style, or implementation of project.

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Unacceptable/no paper (0 points): Paper with no value whatsoever relative to the assignment, or no paper turned in at all. May describe a project of no value that was not approved for this assignment.

Exemplary paper	Adequate paper	Marginal paper	Inadequate paper	Unacceptable/no paper
95-100	85-94	70-84	1-69	0

***SECOND OPTION FOR SIGNATURE ASSIGNMENT:***

***Scoring Rubric for Library Research Literature Review***

Exemplary paper (95-100 points): Appropriate topic, thorough and thoughtful review of previous research. Good writing style, free of mechanical or stylistic errors, appropriate use of APA format.

Adequate paper (85-94 points): Good overall paper, lacking in one or two of the criteria for an exemplary paper. Not entirely reflective or thoughtful, or minor writing style errors may be present.

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95-100	85-94	70-84	1-69	0

***Scoring Rubric for Poster and Poster Session Presentations***

Exemplary poster & presentation (95-100 points): Poster clearly describes major elements of the project; poster reflects clarity, organization, knowledge and interest in the content being presented; reflects a high level of preparation; makes effective use of visual format and presents an interesting, attractive appearance; describes very clearly the methods under consideration; presentation keeps the audience engaged; provide information of interest and value to audience. Presenter is able to answer basic audience questions about the proposal with poise, clarity, and thoughtfulness.

Adequate presentation (85-94 points): Good overall poster presentation, but may be lacking in one or two of the criteria specified in exemplary response. May seem a little less polished or prepared, may be vague in some places, or may fail to completely answer audience questions.

Marginal presentation (70-84 points): Poster presentation provides relevant information, but demonstrates only a limited understanding of the topic or project. Style, organization, or visual elements may be less than adequate. Responses to audience questions may reflect lack of understanding of relevant research methods.

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Exemplary poster & presentation	Adequate poster & presentation	Marginal poster & presentation	Inadequate poster & presentation	Unacceptable/no poster and/or presentation
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