

George Mason University
College of Education and Human Development
Special Education



EDSE 590-663
Research in Special Education

Section #:	FCPS/Cohort 21
Time:	June 5- July 31 *class meets on July 3rd
Location:	Fairfax High School-- D133
Instructor:	Nicole A. Conners, Ph.D
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Office Hours:	By Appointment-please call to schedule

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.

Student Outcomes

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

- Identify and understand different models 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 theories and methods of educational measurement.*
- Describe and discuss basic theories and methods of qualitative research in special education*
- Describe and implement teacher applications of classroom research to address specific classroom problems.*

Relationship of Courses to Program Goals and Professional Organizations:

EDSE 590 is part of the George Mason University, Graduate School of Education, and Special Education Masters Degree Program. The program aligns with the standards for teacher licensure established by the Council for Exceptional Children, the major special education professional organization in the United States. As such the curriculum for the course includes competencies for teaching students with disabilities from preschool through grade 12. Upon successful completion of this course, students will be able to demonstrate the CEC standards in relation to the student outcomes identified in Table 1 or as listed on the following web site:

http://www.cec.sped.org/ps/perf_based_std/commn_core_4-21-01.html

GENERAL EDSE 590 CLASS EXPECTATIONS:

- **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.
- **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.
- **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.**

GMU STUDENT EXPECTATIONS

- Students must adhere to the guidelines of the George Mason University Honor Code [See <http://academicintegrity.gmu.edu/honorcode/>].
- 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/>].
- Students must follow the university policy for Responsible Use of Computing [See <http://universitypolicy.gmu.edu/1301gen.html>].
- 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.
- Students must follow the university policy stating that all sound emitting devices shall be turned off during class unless otherwise authorized by the instructor.
- Students are expected to exhibit professional behaviors and dispositions at all times.

CAMPUS RESOURCES

- 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/>].
- 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/>].

GSE faculty may add at the conclusion:

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

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. <http://cehd.gmu.edu/values/>

Required Text

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.]**

Other readings, including special education research studies will be assigned by instructor.

NOTE:

This syllabus may change according to class needs. If you need course adaptations or accommodations because of a disability or if you have emergency medical information to share with instructor or need special arrangements, please email and/or make an appointment with instructor as soon as possible.

Nature of Course Delivery

Learning activities include the following:

1. Class lecture, discussion, and participation.
2. Videotapes and other relevant media presentations.
3. Study and independent library research.
4. Applications with relevant hardware and software.
5. Application activities
6. Class presentations of papers and research projects.

Evaluation and Points by Activity:

Students will be evaluated on the following (**TOTAL: 500 points**)

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 used, the results of the study, the discussion and limitations, and future research implications. Be sure to the major components of a study: abstract, introduction, methods- participants, materials, process/procedures, results of study, discussion, references, 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: **Research Paper: Signature Assignment** (*you may work with another person on the project of your choice*)

Completion of 1 of 2 options:

- **Option 1:** Written research application project (***action research** with a class or other type of application study)
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- **Option 2:** A 15-20-page literature review paper (*based on current literature)

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

Grading Criteria

A = 95-100%

A- = 90-94%

B = 80-89%

C = 70-79%

F = <70%

TaskStream

Students must retain electronic copies of all graded course products to document their progress in the Special Education program. A product from this course is required to be posted on Task Stream.

Each course in the program has an identified signature assignment. A signature assignment is a specific assignment, presentation, or project that best demonstrates one or more CEC standard(s) connected to the course. A signature assignment is evaluated in two manners. The first is for a grade based on the instructor's grading rubric. The second is for GSE program evaluation. Each student must add the identified signature assignment for each course into the TaskStream portfolio system. (<https://www.taskstream.com/pub/>). You must electronically add the completed signature assignment to your electronic portfolio, via TaskStream.

The electronic submission to TaskStream is likely to be in addition to the version you submit to your instructor for a graded evaluation. Instructions for submitting work to TaskStream will be provided to you.

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 used, the results of the study, the discussion and limitations, and future research implications. Be sure to the major components of a study: abstract, introduction, methods-participants, materials, process/procedures, results of study, discussion, references, etc.... **DUE June 19th, 2012.**

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 June 26th, 2012**

GMU Human Subjects Research Application Form (30 points)

The research application project is designed to provide experience with the following GMU requirements for conducting research with human subjects:

By Federal Policy ALL research activities involving human participants that are directed by a GMU faculty member, staff member, or student or involve GMU faculty, staff, or students as participants, must be reported to the Office of Sponsored Programs for review. The Human Subjects Review Board (HSRB) serves as the GMU institutional review board (IRB). As specified in the Code of Federal Regulations, 45 CFR 46, Protection of Human Subjects, certain categories of human subjects research may be classified as exempt from further IRB review. The Office of Sponsored Programs will determine if an activity is exempt or not exempt from further HSRB review. You may not begin research involving human participants until you receive written notification from this office. **DUE July 3rd, 2012**

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 July 24th, 2012**

Final Project DUE July 31st, 2012 —LAST NIGHT OF CLASS

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 July 31st, 2012 —LAST NIGHT OF CLASS

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...
3. **Prepare a one-page summary hand-out for classmates.**

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

CLASS SCHEDULE

Date	Class Topic & Reading Assignments	Class Activities/Assignments
Class 1 Tuesday, June 5 th , 2012	Course Overview Review syllabus Quantitative/Qualitative Research Methodology Overview What teachers think of research-based practices (research article discussion)-teacher perspectives List of Special Education Journals Searching databases	Assignments Due: **Read Chapter 12 after class tonight Class Assignments: Varied Activities Opening Activity-research methodology Quantitative/Qualitative Word Sorts Research-based practices article and summary
Class 2 Tuesday, June 12 th , 2012	Replicating and extending an existing study Conducting a literature review Qualitative Research: Spotlight on survey designs and creating surveys for your application project	Assignments Due: Please read Chapters 1, 2, 3, & Chapter 7-using surveys in non-experimental research (pp.196-202) Class Assignments: Explore the literature, develop a research question, find studies/research to summarize, etc... Take a survey electronically
Class 3 Tuesday, June 19 th , 2012	Qualitative Research: Research Designs and Analysis and Reviewing the literature and defining a question to explore Replicating and extending an existing study Qualitative Research designs Introduction to Protection of Human Subjects in Research On-line modules (CITI) Human Subjects requirements-models/samples	Assignments Due: Please read Chapters Chapter 7-using surveys in non-experimental research, Chapter 4, 6, & 10 RESEARCH STUDY (peer reviewed DUE) SUMMARY (see model) Provide topic/idea for final project Class Assignments: Practice qualitative coding activity Come to class with a topic or idea for final project
Class 4 Tuesday, June 26 th , 2012	Quantitative Research: Research Designs Nonexperimental and experimental research designs: survey, single subject, experimental and correlational designs) Final projects - we will spend time getting started on this process	Assignments Due: Work on application project or literature review Chapters 7, 8, & 11 CITI Program Human Subjects Certification due. Email certificate or turn in HARD COPY Class Assignments: Evidenced based practices in special education (methodology)
Class 5 Tuesday, July 3 rd , 2012	Quantitative Research: Research Designs continued Quantitative/Qualitative Research Data Analysis Educational Measurement and Measures Descriptive Statistics and Inferential Statistics	Assignments Due: Work on application project or literature review Read Chapters 5 & 9 HSRB application due. Email application or put in digital dropbox. DRAFT LITERATURE TABLE AND SUMMARIES DUE FOR PAPER

<p>Class 6 Tuesday, July 10th, 2012 2012</p>	<p>Quantitative Research: Research Designs continued Quantitative/Qualitative Research Data Analysis</p> <p>Educational Measurement and Measures and Statistical Inferences</p> <p>Bring in draft papers/projects - we will spend time reviewing/working</p>	<p>Assignments Due: Work on application project or literature review</p> <p>Read Chapters 5 & 9</p>
<p>Class 7 Tuesday, July 17th, 2012</p>	<p>INDIVIDUAL WORK TIME/ NO FACE-TO-FACE MEETING TONIGHT! (Nicki at a conference)</p>	<p>Assignments Due: Work on application project or literature review</p> <p>Read Chapter 13 & 14</p>
<p>Class 8 Tuesday, July 24th, 2012</p>	<p>Discussion Section in paper</p> <p>Bring in draft papers/projects - we will spend time reviewing/working</p> <p>CLASS WORK TIME</p>	<p>Assignments Due:</p> <p>TAKE HOME FINAL EXAM DUE</p> <p>Work on application project or literature review</p>
<p>Class 9 Tuesday, July 31st, 2012</p>	<p>LAST CLASS!</p> <p>PROJECT PRESENTATIONS —poster sessions for final projects</p> <p>Course Evaluations</p>	<p>Assignments Due:</p> <p>Poster presentations</p> <p>PROJECTS/PAPERS AND POSTERS DUE</p>

***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.

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

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.

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

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.

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