

George Mason University College of Education and Human Development Secondary Education Program Spring 2013

EDUC 675: RESEARCH IN SECONDARY EDUCATION (3 credits)

Meeting Day/time: Mondays 4:30 p.m.-7:10 p.m. Section 001 Class Location: Thompson 1020

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COURSE DESCRIPTION

EDUC 675 Research in Secondary Education (3:3:0). *To be taken in last year of course work.* Designed to help beginning teachers understand various research paradigms for using research literature and systematic evidence to improve practice. Emphasis is placed on linking research and practice and making informed instructional decisions.

Pre-requisites: Teacher Licensure and EDUC674

Co-requisite: Best Practices Showcase (BPS) is the M.Ed. Program Exit Requirement where you as a M.Ed. Candidate present your understandings, applications, and critical reflection of standards-based and content pedagogical knowledge to peers, faculty, and school community partners in a poster session with a focus on assessing the impact of your pedagogies on student learning and on your professional development. BPS is NOT part of EDUC675 or part of your grade for EDUC 675 however, you MUST successfully complete it and present it to the Secondary Program Faculty. Your GRADE for EDUC675 will be posted only upon successful completion of the Best Practices Showcase requirements.

COURSE LEARNING OUTCOMES

This course is designed to enable students to:

- 1. demonstrate an understanding of the process and components used in teacher research by conducting and assessing a chosen scholarly inquiry situated in their classroom and impact on students' learning;
- 2. prepare a research proposal which makes explicit links between theory and practice;
- 3. examine ethical considerations when conducting teacher research; conduct teacher research which includes: research question(s), research proposal; review of related literature, methods, data collection/analysis, findings, discussion of impact on students, teacher, and education field; and abstract;
- 4. participate in "critical collaborative inquiries" to gain multiple perspectives in interpreting research and for validation and peer review of research;
- 5. demonstrate integration of national and state standards for content and pedagogy as related to the research question by reflecting on their own teaching practice and its impact on students' learning; SPA STANDARDS respective to students' discipline;
- 6. demonstrate skills in the application of technology and use of resources in teacher research.

RELATIONSHIP TO PROFESSIONAL STANDARDS

Students will demonstrate an understanding and application of subject area standards aligned with the *National Content Standards* and identified by their Specialized Professional Association (SPA); and an understanding and application of teaching and learning standards as outlined by *INTASC*. National Content Standards for respective discipline: NCSS, NCTE, NCTM, NSTA

National Council for the Social Studies http://www.ncss.org/

National Council of Teachers of English http://www.ncte.org/

National Council of Teachers of Mathematics http://www.nctm.org/

National Science Teachers Association http://www.nsta.org/

http://books.nap.edu/readingroom/books/nses/

INTASC: Interstate New Teacher Assistance and Support Consortium http://www.ccsso.org/content/pdfs/corestrd.pdf

Virginia State Standards

- Virginia Department of Education http://www.pen.k12.va.us/
- State of Virginia, SOL Resources http://www.pen.k12.va.us/VDOE/Instruction/sol.html
- State of Virginia Standards of Learning Test Information http://www.pen.k12.va.us/VDOE/src/SOLassessments.shtml

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/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/].

CEHD PROFESSIONAL DISPOSITIONS

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

CEHD 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/ For additional information on the College of Education and Human Development,

Graduate School of Education, please visit our website [See http://gse.gmu.edu/].

Emergency Procedures

You are encouraged to sign up for emergency alerts by visiting the website https://alert.gmu.edu. There are emergency posters in each classroom explaining what to do in the event of crises. Further information about emergency procedures exists on http://www.gmu.edu/service/cert.

NATURE OF COURSE DELIVERY

The major purpose of this course is for you to learn how to design and conduct a teacher research project and apply it in your classroom in order to improve your teaching and students' learning. Having said that, I would like to let you know that I support you *every step* of the way and help you scaffold the components of your final required paper. I also work to promote a professional teaching and learning community with peer critical friend support. Throughout the course, you are completing a step informally that you will later insert into your final paper. Build it with a commitment to each step in the process, and it comes together. The course will be taught through a variety of activities to support the development of your teacher research projects involving: whole class and small group discussions, group, pair and group work, online work, and through dialogue and reflections about practice.

*The course <u>requires that you have access to a classroom to conduct your research</u>. If you do not have your own classroom, you will need to let the instructor know during the first class. Alternative arrangements used successfully in the past will be offered.

REQUIRED READINGS

- 1) Samaras, A. P. (2011). Self-study teacher research: Improving your practice through collaborative inquiry. Thousand Oaks, CA: Sage.
- 2) Three selected exemplar projects of your choice posted on Bb that you will critique.
- 3) American Psychological Association (2009). *Publication Manual of the American Psychological Association*. American Psychological Association: Washington, DC. (Available at library).

ONLINE STUDENT STUDY GUIDES FOR TEXT: http://www.sagepub.com/samaras/ See Chapter Resources for each chapter:

- PowerPoint Slides
- Self-Study Scholar Advice
- Chapter Summary
- Discussion Question

Accompanying Textbook BLOG: You are encouraged to visit the textbook blog and add comments at http://teaching-insideout.com/. To subscribe, the URL of my RSS feed to my blog is http://teaching-insideout.com/feed/

ASSSIGNMENTS, DESCRIPTIONS, AND EVALUATION

- 1. Participation: F-T-F and Online with Critical Friend Work (20%)
- 2. Research Proposal (5%)
- 3. Draft Literature Review (5%)
- 4. Draft Teacher Research Report (5%)
- 5. Peer Review of Draft Teacher Research Report (5%)
- 6. Teacher Research Project (60%)

1. Participation and Critical Friend Work (20%)

Attendance at all classes, for the entire class period is a course expectation and absence will affect your grade. Successful completion of this course requires attendance at all Face-to-Face classes and active participation in the online critical friend work. Being on time is also essential and lateness will affect your grade. Please notify instructor ahead of time if you must miss class and work with peers for missed material.

You are expected to **complete all readings and participate in class and in online discussions** with openness, consideration, and effort to "hear for" and "listen to" others as you also seek to be understood. Since this is a professional development course (post licensure), high quality work (i.e., "A" work) is expected on all assignments and in class participation. All written assignments are to be <u>submitted as a file</u> and submitted electronically under the respective Class Discussion Thread on Bb. <u>Title each assignment</u> with your last name and the name of the project/assignment, e.g., Smith.ResProp.09.16.13. Use Times Roman 12 pt font, double-spaced for all assignments.

*For full consideration, all assignments are due and posted *electronically* on Bb prior to the beginning of class on the day and time they are due, unless otherwise announced.

MAKE IT A HABIT TO WRITE REGUALARLY AND SAVE YOUR WORK IN MULTIPLE PLACES.

Come to class prepared to contribute your critical reflections of your own experiences and ideas. **Demonstration of positive professional disposition**s towards colleagues during peer review along with a willingness to accept constructive criticism is a course expectation and a professional disposition.

As part of your course participation, you will have the opportunity to **work with critical friends** as you develop your teacher research project. The Critical Friend Inquiries (CFI) are designed for peer review with support and to provide alternative perspectives on interpretation to increase the validity of your research. Critical friends provide support as well as a feedback loop to improve your practice. It is *critical* to have friends in research but critical friends are *not critical* in their approach with each other. Establish ground rules with "critical friends" and visit them often. Use your group blackboard group space to post files and communicate frequently. Be committed and accountable to each other and check in often.

Your work involves TELs, sharing weekly updates in class, sending and corresponding to critical friend research memos, brainstorming ideas as a teacher about the classroom dilemma you are researching, exchanging ideas for strategies and lessons, sharing how you are integrating standards in meaningful ways, and conducting a peer review of the draft research report. Your participation includes in class time to present oral critiques of exemplar projects.

Technology-enhanced Learning (TEL) ONLINE WORK WITH CRITICAL FRIENDS

Once you choose your critical friends, I will set up Critical Friend Team (CFT) pages for peer support and review on the development of your research projects. Rotate facilitators. Facilitators are responsible to rally full and consistent input from the team. Check in with each other often with courtesy, openness, and care. It is expected that you will actively participate and be self-regulated on TELs. Professionals are responsible, ethical, and accountable to each other.

Participation Rubric F-T-F and Online with Critical Friend Work (20%)

Category	Exemplary	Accomplished	Developing	Undeveloped
0 ,	20 pts.	18-19pts	17pts	Below 17 pts
Assignments are	Successfully	Completes all	Does not complete	Few
central to the	completes all	assignments.	some assignments.	assignments
development of your	assignments.	Participates in	Does not contribute	completed.
project. Attendance	Outstanding and	discussions and	to discussions or	Few
and participation are	consistent	activities on a	activities very	contributions
critical components	participation in	regular basis;	often, but generally	to class
of this course. It	discussions and	questions and	reveals some	discussions.
gives you the	class activities.	comments reveal	thought and	Little evidence
opportunity to learn	Promotes	thought and	reflection and some	of participation
from and contribute	conversation	reflection and	contribution from	and
to building a	focused on the topic.	contribution from	assigned readings.	contribution.
positive classroom	Comments	assigned readings.	Follows rather than	Shows little
experience and	demonstrate a high	Frequently involves	leads group	concern for
learning community.	level of	peers in discussion.	activities. Solicits	peers' learning
Participants	understanding from	Conducts peer	some peer	or input or
contribute to each	assigned readings.	review; Shares	discussion and peer	peer review.
other's learning by	Listens actively to	leadership roles in	review. Misses	Misses many
actively listening,	peers. Embraces	group work.	classes. Is late for	classes and is
exchanging ideas,	peer review;		class. Somewhat	late often.
sharing learning	Prompts peer		shares leadership	Does not share
from reading and	feedback and input.		roles in group	leadership
websites, peer view,	Purposely shares		work.	roles in group
and supporting each	leadership roles in			work.
other's efforts.	group work.			

Minute Folders

Each of you will be given a file folder. At the end of each class, please take a minute and write a brief reflection on the class session and what question(s) remain unanswered in your folder. Your comments will provide feedback to help me be responsive to your ongoing learning needs. Turn your folder in at the end of each class.

2. Research Question and Proposal (5%)

"It must be love.

For your research paper, you should choose a research question that really matters to you. It should be something you're curious about and willing to spend time researching and learning about. If you aren't eager to spend several days curled up reading about your topic, then it's not love, and you need to ditch it and find another topic" (Roberts, GMU alumna, 2009).

Begin to articulate why this question for you and why now. What is the outgrowth of thispuzzlement? Write a research proposal. You may also elect to add a visual representation to your research proposal. The idea is for the visual to help you figure out your "thesis" and not to enter an art show.

Approach this assignment from where you are and honor its incompleteness as part of the research process. Ask yourself does the proposal give you a solid framework to launch your project. Include each subtitle listed on p. 123 in our textbook. See example on pp. 124-126.

3. Draft Literature Review (5%)

Post a draft of your literature review on Bb and begin to ask yourself:

- What does the literature review add to your understanding of your research topic?
- What common topics and themes have you found in the literature?
- What ideas for pedagogical strategies can you adapt from the literature?

Use the topics to design your conceptual framework or mapping of the "big ideas" and connections you find in the literature to your study (See pp. 127-134). Insert your draft narrative directly into draft report.

4. Draft Teacher Research Report (5%)

Post a draft of your teacher research report for professor and critical friend input.

5. Peer Review of Draft Teacher Research Report (5%)

Critical friends <u>use the "Final Project Rubric</u>" in the "Assignment Guidelines" folder to provide peer review along with tracking and comments on a peer draft.

Grade/Points for 5 pt. Assignments	Rubric Description
A+ Exemplary 5 points	Establishes an exemplary narrative with thoughtful and relevant detail which demonstrates a very high level of understanding and application from assigned readings. Submission reflects outstanding participation in f-t-f and online discussions and class activities and active listening and serious feedback with peers. Submitted on time.
A Excellent 4.95 – 4.7 points	Provides a very adequate narrative with thoughtful and relevant detail which demonstrates a high level of understanding and application from assigned readings. Submission reflects excellent participation in f-t-f and online discussions and class activities and active listening and a high level feedback with peers. Submitted on time.
A- Approaching Excellence 4.65-4.5 points	Provides an adequate narrative with thoughtful and relevant detail which demonstrates a good level of understanding and application from assigned readings. Submission reflects good participation in f-t-f and online discussions and class activities and active listening and serious feedback with peers. Submitted on time.
B+ Developing Less than 4.5 points	Provides a fair narrative with thoughtful and relevant detail which demonstrates an average level of understanding and application from assigned readings. Submission reflects average level of participation in f-t-f and online discussions and class activities and active listening and serious feedback with peers. Needs more work. Submitted late.

6. Teacher Research Project

60%

All teacher research reports must adhere to APA format. No report binders or covers; just clip. Your project should be useful to you and your students. A written a report that includes the specific headings and subheading are posted on Bb under "Assignment Guidelines" "Research Project Headings Template" Look at the headings at the beginning of the semester so you can see where you are headed.

Recommended Weekly Researcher Log

It is highly recommended that you keep a researcher log of progress of your teacher research project each week and include it in the appendix of your final report. See Self-Study Research Project Timeline Log in Chapter 2. Table 2.2, pp. 28-29). This is your tentative timeline and tool to self-regulate your progress and the research process.

Performance-Based Assessment (PBA)

Every student registered for any EDUC course with a required performance-based assessment (will be designated as such in the syllabus) is required to submit this assessment: "Teacher Researcher Project" to TaskStream (regardless of whether a course is an elective, a onetime course or part of an undergraduate minor.) Evaluation of your performance-based assessment will also be provided using TaskStream. Failure to submit the assessment to TaskStream will result in a the course instructor reporting the course grade as Incomplete(IN). Unless this grade is changed upon completion of the required TaskStream submission, the IN will convert to an F nine weeks into the following semester.

PBA for EDUC 675, "Research in Secondary Education"

Teacher Research Project Description and Assessment Rubric (60 points)

Title and Abstract (2 points possible)

Your title can be as creative as you like—take researcher/artistic license with this. In 125 to 150 words, what was your study about? What was your major finding? Consider the following questions as you draft your title and abstract:

- 1) Have you provided a single, articulate, concise paragraph of no more than 150 words?
- 2) Does you abstract concisely describe your purpose and the context, method, key findings, and significance of your research?

Grade/Points	Rubric Description
A- to A	Provides a concise (125-150 words) summary that reports factually on the purpose
Exemplary	of the study and the methods and procedures to be followed.
1.8 - 2 points	
B to B+	Provides an identifiable summary (125-150 words) that addresses the purpose of the
Proficient	study. Touches on methods and procedures to be followed, but is not sharply
1.6 - 1.7 points	focused.
C	Provides only general statements about the study. Information on methods and
Approaching	procedures to be followed is sketchy or missing. Falls short of 125 words or greatly
Proficiency	exceeds the 150-word limit.
1.4 - 1.5 points	
F	Student work is so brief, incomplete, or off-topic that any reasonably accurate
Unsatisfactory	assessment is impossible.
Less than 1.4 points	

Introduction, Rationale, Area of Focus, and Research Questions (5 points possible)

Describe the setting, including the community, school, students, and other relevant information. What is the purpose of your study? What problem or issue are you addressing? Describe why the concerns are important to you and what your research might help you learn as a result of its conduct. What is its background and significance? How does it relate to your masters curriculum? What is (are) your research question(s)? Do you have a hypothesis? If so, what is it and how did you formulate it? Be sure that your research questions steer you toward a descriptive response. Consider the following questions as you draft your introduction, rationale, area of focus, and research questions:

- 1) Have you explained the outgrowth of your study?
- 2) Have you offered perspectives that shaped this question for you?
- 3) Have you situated the study in terms of explaining the outgrowth of this puzzlement in the context of your work? e.g., your students, classroom, school, district?
- 4) Have you clearly and concisely explained why this research is important? Have you addressed the broader educational and social significance of this research?
- 5) Have you clearly and concisely stated the research problem?
- 6) Have you clearly and concisely stated your main research question and any subquestions?

Grade/Points	Rubric Description
A- to A	Establishes a sound context/theoretical framework for the study and a compelling
Exemplary	rationale for its execution. Clearly and explicitly states the research question and
4.5 - 5 points	purpose of the study.
B to B+	Provides an adequate context/theoretical framework for the study and a defensible
Proficient	rationale for its execution, though one or both may be weakly developed. Explicitly
4-4.4 points	states the research question and purpose of the study.
С	Provides minimal information on the context/theoretical framework for the study.

Approaching Proficiency	Does not offer a rationale for the study's execution, or does so only superficially. Explicitly states the research question and purpose of the study.
3.5 - 3.9 points	
F	Student work is so brief, incomplete, or off topic that any reasonably accurate
Unsatisfactory	assessment is impossible.
Less than 3.5 points	

<u>Literature Review (8 points possible)</u>

In order to properly address a research question you need to be familiar with previous investigations of your topic. You should conduct a literature review in which you cite and synthesize approximately 8-10 sources and discuss how they informed your design. Teacher research appeals to a broad range of research resources, including reports of teachers' experiences. Transitions should connect one annotated source with the next. At the end of the literature review, include a one-paragraph summary of the major discoveries in your review, connecting these to the focus of your study. References must be from refereed journals, books (generally not textbooks), curriculum resources, and scholarly compilations. NOTE: The literature review should emphasize synthesis and analysis (Bloom, 1956, 1984). Use direct quotes sparingly. Craft your literature review as a story of the study of your topic. Consider the following questions as you draft your literature review:

- 1) Did you conduct an ongoing literature review which informed your research?
- 2) Is the review relevant and connected to your study?
- 3) Is the review adequate, coherent, and analytical?
- 4) Does the review include references from a variety of sources?
- 5) Is the review integrated into a conceptual framework with a mapping of the theories, literature, and phenomena that help to inform your study?

Grade/Points	Rubric Description
A- to A	Cites at least 10 peer-reviewed, published reports of empirical research. Highlights
Exemplary	gaps in the literature to which the proposed study will respond. Organizes the
7.2 - 8 points	literature by clearly identifiable themes, proceeding from general to more specific
	within each theme. Effectively synthesizes referenced sources, using few, if any,
	direct quotes.
B to B+	Cites at least 8 peer-reviewed, published reports of empirical research. Highlights
Proficient	gaps in the literature to which the proposed study will respond. Organizes the
6.4 - 7.1 points	literature by identifiable themes, although organization within themes may follow no
	clear or consistent pattern of presentation. Attempts to synthesize referenced
	sources. Uses few direct quotes.
C	Cites fewer than 8 peer-reviewed, published reports of empirical research. Does not
Approaching	explicitly highlight gaps in the literature to which the proposed study will respond.
Proficiency	Summarizes cited works sequentially, rather than synthesizes and organizes them
5.6 - 6.3 points	thematically. Relies heavily on direct quotes.
F	Student work is so brief, incomplete, or off-topic that any reasonably accurate
Unsatisfactory	assessment is impossible.
Less than 5.6 points	

Assessment/Feedback: X/8

Description of the Method (15 points possible)

In this section describe how you implemented your research. Include a description of subjects (i.e., students, teachers, administrators), the context of the research, the strategies and materials (put sample material in an appendix), the number and total time of each research session, and a complete description of the methodologies. Repeat your question in this section—remind us often what you are studying. Describe how you selected your subject sample—why did you choose these individuals and who are they, in terms of gender, ethnicity, age, grade level, language/culture, and educational achievement? Describe ALL of your methods, including what influenced the selection of your methodology and design, what measures you took to assure the validity of your study, and how you triangulated your data. Be sure to include a table and timeline of your methods—what you collected and when. Be sure to describe what type of data you collected—for example, did you do a needs assessment (via a test) to address student achievement, and then design and implement a new instructional strategy? Or did you observe a group of students to see how they behaved in a particular context, and then interview them to ascertain their reasons? Did you do a series of in-depth interviews with students or teachers? How do the data relate to your research question? How do they relate to your masters curriculum? Finally, describe how you planned to make sense of—analyze—your data in light of your research question(s). Provide rich descriptions of HOW you reviewed your data, the themes that became apparent in your reviews, and your ultimate findings. Consider the following questions as you draft your literature review:

- 1) Have you described your research context; community, school, and classroom context?
- 2) Have you included demographic information of participants?
- 3) Did you include your reflection of the problem? e.g., behaviors observations, possible causes?
- 4) Have you explained the reasons for your pedagogies based on your noticing of your classroom and the literature reviewed?
- 5) Have you described in detail what data you collected, how you collected it, and when you collected it, including data generated from your pedagogies and strategies?
- 6) Are your data from multiple sources?
- 7) Did you include a description of the pedagogical strategies you enacted?
- 8) Did you explain how you analyzed your data and include a data audit trail?
- 9) Have you included and explained the role of your critical friends in your data interpretations and validation?
- 10) Did you explore using visuals and technologies for analyzing and displaying your findings in a coherent manner?

Grade/Points	Rubric Description
A- to A	Explains, and justifies the appropriateness of the study design, procedures followed,
Exemplary	sampling methods, data collection and analytical tools (including any statistical
13.5 – 15 points	tests), given the stated purpose of the study. Discusses ethical issues raised by study
	and explains how they were addressed.
B to B+	Explains the study design, procedures followed, sampling methods, and analytical
Proficient	tools (including any statistical tests), given the stated purpose of the study.
12 - 13.4 points	Discusses ethical issues raised by the study and how they were addressed.
С	Explains study design, procedures followed, sampling methods, and analytical tools
Approaching	(including any statistical tests), given the stated purpose of the study; explanations,
Proficiency	however, are not fully developed. Mentions ethical issues raised by the study but
10.5 - 11.9 points	addresses them only superficially.
F	Student work is so brief, incomplete, or off-topic that any reasonably accurate

Unsatisfactory	assessment is impossible.
Less than 10.5 points	

Results and Findings (15 points possible)

In this section, indicate what you discovered or found as a result of your data gathering. Focus on results that are related to your research concern and answer your research questions or shed light on your research hypotheses. Introduce your findings before you begin to describe them, and remind us of your research question again. Organize this section in a way that makes sense for your data/findings—by student, by theme, by data source, etc. Use illustrative examples from your data to SHOW us your findings. Use tables to summarize and SHOW us what you've learned. Focus on what's truly interesting in your findings, even if you have limited data to support this. Feel free to use mini case studies to illustrate your findings, through the lens of a few students. Remember that the goal is to share what you learned about your teaching for yourself first; our goal is not NECESSARILY to extract findings that will be generalizable across EVERY teaching setting. Interpret your data in as much detail as possible, describing whether or not—or how—your findings corroborated your expectations. Were there any surprises in your findings? Can you think of any alternative explanations for your findings? Consider the following questions as you draft your results and findings:

- 1) Did you restate your research question and what was found through your research?
- 2) Are the findings thoroughly and adequately presented?
- 3) Is there convincing evidence to support your themes?
- 4) Is there connection and coherence among the separate themes?
- 5) Did you explain your findings to your critical friend to gain his or her perspective on your interpretations?

Grade/Points	Rubric Description
A- to A	Reports and interprets narrative and numerical data accurately, objectively, and
Exemplary	concisely using analytical tools appropriate to the methodology. Highlights explicit
13.5 – 15 points	links between study outcomes, hypotheses (if stated), and the original research
	question.
B to B+	Reports and interprets narrative and numerical data accurately, objectively, and
Proficient	concisely. For the most part, analytical tools are appropriate to the methodology.
12 - 13.4 points	Does not highlight explicit links between study outcomes, hypotheses (if stated), and
	the original research question; however, such links may logically be implied.
C	Reports and interprets narrative and numerical data with little apparent concern for
Approaching	accuracy and objectively. Analytical tools are inappropriate to the methodology.
Proficiency	Provides, at best, tenuous links between study outcomes, hypotheses (if stated), and
10.5 - 11.9 points	the original research question.
F	Student work is so brief, incomplete, or off-topic that any reasonably accurate
Unsatisfactory	assessment is impossible.
Less than 10.5 points	

Assessment/Feedback: X/15

<u>Discussion, Reflection, Implications, Recommendations, and Action Plan (10 points possible)</u>

In this section reflect on the findings of your data collection and discuss what they might mean to you as a teacher and teacher researcher. What did you learn from the study? How did it relate to

your masters curriculum? How will it influence your teaching—that is, based on the results and themes that emerged from the study, what changes will you make in your teaching? How will you share these findings with others? What are the implications for future research? Speculate on what it would mean if your data pointed in one direction versus another. Again, focus on what's truly interesting in your data/findings, even if you have limited information to support this. Make some bold recommendations for how we might serve students better. Be sure to describe what all of this information—the teacher research process, your data, your findings—mean to you as a professional and a person. Describe how you might share the findings of your paper—with your principal, your grade level team, other teachers who are working with these students, use it in a workshop, claim it as an area of expertise on your resume, etc. Be sure to describe potential implications of your study and its findings for other teachers and for education policymakers. Consider the following questions as you draft your discussion, reflection, implications, recommendations, and action plan:

- 1) Have you adequately explained the implications of your study to your students' learning?
- 2) Have you adequately explained the implications of your study to your professional development?
- 3) Have you adequately explained the implications of your study to your teaching and reframing of your practice? Revisit your original research question. Take a retrospective journey and reflect back on the "self" or your role and the conscious (and perhaps at the time unconscious) consequences of your actions in the process of studying your teaching practice.
- 4) Have you adequately explained the implications of your study to the education field?
- 5) Have you adequately explained the relevance of your study to national and state education standards?
- 6) Have you discussed any limitations?
- 7) Have you identified areas for future research possibilities?

Grade/Points	Rubric Description
A- to A	Offers evaluation of the study's strengths and weaknesses. Addresses
Exemplary	theoretical/practical implications of study findings including how they will be
9 – 10 points	shared with others. Highlights threats to validity, reporting on how they were
	addressed. Supports assertions/interpretations using sound arguments consistent
	with study findings. Describes recommendations for future research, and how results
	will be applied in the practice.
B to B+	Addresses theoretical/practical implications of study findings including how they
Proficient	will be shared with others. Highlights threats to validity, reporting on how they were
8.0 - 8.9 points	addressed. Supports assertions/interpretations using sound arguments consistent
	with study findings. Does not describe recommendations for future research, nor
	how results will be applied
C	Addresses practical implications of study findings including how they will be shared
Approaching	with others. Attempts to discuss threats to validity, but does so superficially and/or
Proficiency	fails to offer antidotes. Does not consistently support assertions/interpretations using
7 – 7.9 points	sound arguments consistent with study findings. Does not describe
	recommendations for future research, nor how results will be applied in practice.
F	Student work is so brief, incomplete, or off-topic that any reasonably accurate
Unsatisfactory	assessment is impossible.
Less than 7 points	

Assessment/Feedback: X/10

References, Appendices, Writing Styles, Mechanics, and General Notes (5 points possible)

Include a complete list of references in APA format. Append all appropriate materials, including, if relevant, any questionnaires, inventories, assessments, sample student work, etc. Include at least one example of each tool you use—it's ideal to include one blank version and one version completed by one of your research subjects. In addition, follow these general guidelines:

- The model for your study report is not a masters thesis nor traditional class research paper, but rather an article prepared for submission to a journal that focuses more on practice than theory.
- You may find it helpful to select a journal whose research emphasis and readership match your research topic and follow its manuscript submission criteria. Chapter 8 in the Mills text presents a sample article.
- It is expected that the entire project will be described in a 25-30 page paper; please do not exceed the 30-page limit.
- Write in the past tense as much as it makes sense to do so
- Your paper does not have to be anonymous; you can include names, as this is an internal document and will not be shared anywhere outside of our class
- Be sure to make a personal and professional connection to your topic and project
- Citations are not necessary in the introduction
- Feel free to revise your questions based on data, to make these questions more focused Consider the following questions as you draft your references and appendices and consider the overall writing quality of your paper:
 - 1) Did you follow the APA style for the report for a running head, page numbering, references, citations, and the appendix? Does the report include a title page with project title, author's name, and author's professional affiliation?
 - 2) Are references current and from different sources?
 - 3) Are all references cited in the research report included in the references? Have you provided a complete reference list of all print and nonprint (Internet) references?
 - 4) Is the report coherent, concise, and well structured with a clear purpose?
 - 5) Is the report grammatically correct with proper usage of language?
 - 6) Does the report have your distinctive focus and voice? Have you used professional language (i.e., no jargon)? Have you written in an accessible style and presentation?

Grade/Points	Rubric Description
A- to A+	Paper is well written with no notable drafting errors. Voice, verb tense,
Exemplary	and writing style are consistent throughout. Technical terms are used
4.5 - 5 points	precisely and accurately, reflecting a firm understanding of underlying
	concepts. Text is original; opinions and propositions are supported by
	strong logic and formal references to published research. Sections are
	linked with unifying transitions, giving the report a clear sense of
	direction. Paper adheres to formatting specifications provided in course
	text and materials. Citations/references page follow APA style.
B to B+	Paper is well written with few notable drafting errors. Voice, verb tense,
Proficient	and writing style are generally consistent with few exceptions that do not
4-4.4 points	substantially diminish readability. Most technical terms are used
	correctly, reflecting adequate understanding of the underlying concepts.
	Text is original, but opinions and propositions are not consistently

	supported by logic and references to published research. Transitions do not connect sections seamlessly but do not substantially diminish readability. Paper does adhere to formatting specifications provided in course text and materials. Citations/references page do not follow APA style.
C	Paper falls short of accepted standards for master's level composition.
Approaching	Drafting errors and error patterns are widespread. Voice, verb tense, and
Proficiency	writing style vary from section to section. Technical terms are used
3 - 3.9 points	incorrectly and/or imprecisely, reflecting only a rudimentary
	understanding of the underlying concepts. Text is formulaic, relying
	heavily on paraphrases and "borrowed" materials not formally cited.
	Transitions are weak, contributing to an apparent lack of direction. Paper
	does not adhere to formatting specifications provided in course text and
	materials. Citations and references page do not follow APA style.
F	Paper is so brief, incomplete, or off-topic that any reasonably accurate
Unsatisfactory	assessment is impossible.
Less than 3 points	

Overall Assessment/Feedback: for PBA X/60

Grading Scale for Research Project

Exemplary: 60 points. Substantially meets the project and report requirements. All criteria are addressed fully.

Accomplished: 56-59 points. Meets the project and report requirements. Criteria adequately addressed.

Developing: 55-53 points. Meets some, but not all, of the project and report requirements.

Weaknesses in addressing some of the criteria. Consider revision.

Undeveloped: 53 points and below. Does not meet the project and report requirements.

Weaknesses in addressing the majority of the criteria. Needs significant revision.

Please note that B- is not a passing grade

Grading Scale for Course

Grade	Standards	Grading	Grade Points	Graduate Courses
A	Meets Standard	93 – 100	4.00	Satisfactory /
				Passing
A-	Meets Standard	90 – 92.9	3.67	Satisfactory /
				Passing
B+	Approaches	88 – 89.9	3.33	Satisfactory /
	Standard			Passing
В	Approaches	83 – 87.9	3.00	Satisfactory /
D	Standard			Passing
В-	Approaches	80 – 82.9	2.67	Satisfactory* /
	Standard			Passing

READING RESOURCES

Teacher Research

Falk, B., & Blumenreich, M. (2005). *The power of questions: A guide to teacher and student research*. Portsmouth, NH: Heinemann.

- Goodnough, K. (2001). Teacher development through action research. *Action in teacher education*, 23 (1), 37-46. Access through GMU, Library, e-journal.
- Greely, K. (2000). Why fly that way?: Living community and academic achievement. NY: Teachers College.
- Hubbard, R. S., & Power, B. (1999). *Living the questions: A guide for teacher-researchers*. Portland, ME: Stenhouse.
- Kagan, D. M. (1993). Laura and Jim and what they taught me about the gap between educational theory and practice. NY. State University of New York Press.
- Leedy, P. D., and Ormrod, J. E. (2001). *Practical research: Planning and design*. Upper Saddle River, NJ: Merrill.
- MacLean, M.S. & Mohr, M. (1999). *Teacher-researchers at work*. National Writing Project, Berkeley, CA.
- Samaras, A. P., & Freese, A. R. (2006). *Self-study of teaching practices primer*. New York, NY: Peter Lang.
- Samaras, A. P., Freese, A. R., Kosnik, C., & Beck, C. (Eds.) (2008). *Learning communities in practice*. The Netherlands: Springer Press.
- Thomas, R. M. (2005). *Teachers doing research: An introductory guidebook*. Boston: Pearson/Allyn & Bacon.

Analysis

- Bogdan, R. C., & Biklen, S. K. (2007). *Qualitative research for education: An introduction to theory and methods.* Boston, MA: Allyn & Bacon.
- Czaja, R., & Blair, J. (1996). *Designing surveys: A guide to decisions and procedures*. Thousand Oaks, CA: Pine Forge Press.
- Miles, M. B., & Huberman, A. M. (1994). Qualitative data analysis. Thousand Oaks, CA: Sage.
- Patton, M. Q. (1990). Qualitative evaluation and research methods (Second Edition). CA: Sage.
- Rovessi, C., & Carroll, D. J. (2002). *Statistics made simple for school leaders*. Lanham, MD: Scarecrow Press.
- Salkind, N. (2000). *Statistics for people who think they hate statistics*. Thousand Oaks, CA: Sage.

Research and Writing

- Booth, W. C., Colomb, G. G., & Williams, J. M. (1995). *The craft of research*. Chicago, IL: The University of Chicago.
- Dahl, K. K. (1992). *Teacher as writer: Entering the professional conversation*. Urbana, IL: NCTE.

Writing a Research in Action Paper

Writinghttp://www.gmu.edu/departments/english/composition/wits/research/index.html

Help with Research http://library.gmu.edu/mudge/Dox/basics.html

Data Collecting Tools: Go to Google docs, then spreadsheets to create survey.

Also Survey Monkey http://www.surveymonkey.com/home.asp

National Reports and Test Reporting Centers

- The Nation's Report Card/National Assessment of Educational Progress http://nces.ed.gov/nationsreportcard/
- National Center for Educational Statistics http://nces.ed.gov/help/sitemap.asp
- TIMSS and PIRLS The International Math and Science Study and International Literacy Study http://www.timss.org/
- Best Evidence/School Reform Reports/School Models. Johns Hopkins University http://www.bestevidence.org/index.htm

PROPOSED CLASS SCHEDULE

Date	Topic/Learning	Readings and Assignments Due

	Experiences POST = on Class Discussion Thread before class.	
		TEL = on Group Discussion Thread
1 1/28	INTRODUCTION TO COURSE FINDING YOUR RESEARCH	During the first week, read Preface and Chapter 1 and write a letter to a critical friend using CFI 4.1. See p. 83 for prompts. Start noticing your classroom.
	QUESTION	Brainstorm possible research topics.
2 2/4	RESEARCH RATIONALE RESEARCH DESIGN	Overview Chapters 2, 3, & 12 Overview Self-Study Resource Center at http://www.sagepub.com/samaras/ Read Chapters 4 & 6 Bring and post a picture of your Research Artifact with a caption on Bb to help us learn about your research interests. The artifact is a tool to prompt your thinking about your.
		The artifact is a tool to prompt your thinking about your research. Use CFI 5.3 pp. 104-106
3 2/11	RESEARCH ETHICS LITERATURE REVIEW	Read Chapters 5 & 7 POST draft research question
		Oral Critique 1 of an exemplar with focus on RQ, Rationale, Design and Lit Rev
4 2/18	Technology-enhanced Learning (TEL) ONLINE WORK Use electronic databases to build lit review	TEL #1: Facilitator chooses a topic issue or question generated from his/her literature review. Each team member responds and may elect to create new threads based on their literature review. POST draft lit rev on Bb by 2/22
5	DATA COLLECTION	Read Chapters 8 & 9
2/25	WORKSHOP	POST Research Proposal & Research Design Chart Use CFI 6.3, pp. 123-126

		Oral Critique 2 of an exemplar with focus on data collected and described
6 3/4	TEL ONLINE WORK	TEL #2: Facilitator begins a thread of sharing <u>pedagogical</u> strategies and data and how they align and support his/her research. Others post their charts. POST Pedagogical Strategies /Data chart to CF and give each other feedback
3/11- 3/17	Have a wonderful Spring Break!	
7 3/18	TEL ONLINE & FIELD WORK	TEL #3: Facilitator coordinates who will work together to discuss and refine a data instrument.
		Work in field to collect and document data.
8	DATA ANALYSIS	Read Chapters 10 & 11
3/25	WORKSHOP	Oral Critique 3 of an exemplar with focus on data analyzed and described
9 4/1	TEL ONLINE WORK	TEL #4: Write, post, and respond to a letter to your CF about you data analysis to your CF. Use CFI 11.1, p. 215 for prompts. Please also POST.
10	VALIDATION WORKSHOP	Read Chapters 12 & 13
4/8	WRITING YOUR FINDINGS, LIMITATIONS, AND ABSTRACT	CFT check-coding: Bring your data to class.
11 4/15	TEL ONLINE WORK	TEL #5: Facilitator coordinates who will work together as peer reviewers.
		POST your research project draft with title and

		abstract.
12 4/22	TEL ONLINE WORK	TEL #6: Facilitator creates a thread for peer review of draft. Please also POST peer review of research draft.
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13 4/29	TEL ONLINE WORK	TEL #7: Facilitator creates a thread for reflections of "Lessons Learned" from conducting the research and next self-study steps. Use CFI 12.2 on pp. 239-240. This can be adapted for the discussion section of your project.
14 5/6	CLASS PRESENTATIONS	In 5 minutes: 1. Tell us your RQ. 2. Tell us your key discoveries.
		*POST and_BRING hard copy of Final Teacher Research Project. Appendixes can be posted online.
15 5/7	BEST PRACTICES SHOWCASE See sample template: http://oscar.gmu.edu/students/Creating-Posters.cfm	**SEED Program – The Best Practices Showcase Presentation is mandatory for the M.Ed. degree. The BPS grade is P/F and has NO impact on the grade for EDUC675. However, your grade for EDUC675 will not be released until the Best Practices Showcase receives a grade of 'P'.
	Day: Tuesday, May 7, 2013 Location: Research 163 Time: 6-8 pm	