George Mason University
College of Education and Human Development
Secondary Education Program
Fall 2015

EDUC 675: RESEARCH IN SECONDARY EDUCATION
Section 006 (3 credits)
Meeting Day/time: Tuesdays 4:30 p.m.–7:10 p.m. Class Location: Robinson Hall A203

Professor: Dawn Renee Wilcox, Ph.D.
Office hours: email or call 540-845-4794 for apt.
Office: Thompson 1403
Email: dwilcox1@gmu.edu

COURSE DESCRIPTION

EDUC 675 Research in Secondary Education (3:3:0). 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. To be taken as the last course in the M.Ed.
Co-requisite: M.Ed. Exit Requirement
Note: The course requires that you have access to a classroom to conduct your research. 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.
*See J. Recko exemplar under spring 2015 exemplars for study completed by a student without a classroom as an idea.

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 its impact on students’ learning;
2. craft a research design 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 respective to students’ discipline;
6. demonstrate skills and applications of visual and digital literacies in teacher research project and teacher research impact collaborative presentation.

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

- [http://books.nap.edu/readingroom/books/nses/](http://books.nap.edu/readingroom/books/nses/)

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

Virginia State Standards

- Virginia Department of Education [http://www.pen.k12.va.us/](http://www.pen.k12.va.us/)
- State of Virginia, SOL Resources [http://www.pen.k12.va.us/VDOE/Instruction/sol.html](http://www.pen.k12.va.us/VDOE/Instruction/sol.html)

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. The course is designed to promote a professional teaching and learning community with peer review critical friend support. Throughout the course, you are completing a step informally that you will later insert into your final paper. As you build your project with a commitment to each step in the process, 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 of/in practice. Individual consultations are also built into class time.

REQUIRED READINGS


*GMU Alumni Teacher Research Exemplars:*


Graduate School of Education, George Mason University, Virginia, in partial fulfillment of the requirements for the degree of master of education.


**ONLINE RESOURCES**

*Please also visit the web links for online resources posted on Bb. Also see:*

*Networks: An online journal for teacher research*
http://journals.library.wisc.edu/index.php/networks/index

*Studying Teacher Education: A journal of self-study of teacher education practices:*
http://www.tandf.co.uk/journals/titles/17425964.asp

Self-Study of Teacher Education Practices Special Interest Group http://aera.net/sstpsig109

Biennial International Conference on the Self-Study of Teacher Education Practices [see “Conference History” and scroll down to “Conference Proceedings” where you will have access to pdf of papers from proceedings]
http://www.castleconference.com/conference-history.html

**RESEARCH RESOURCES**

**Survey and Questionnaire Development**
See: http://writing.colostate.edu/guides/guide.cfm?guideid=68

See: file titled “Questionnaire.Johnson” in Data Collection Tools Folder in Bb


**Data Analysis**


**Research and Writing**


**Data Collecting Tools**: Go to Google docs, then spreadsheets to create survey. Also Survey Monkey [http://www.surveymonkey.com/home.asp](http://www.surveymonkey.com/home.asp)

**National Reports and Test Reporting Centers**

- TIMSS and PIRLS The International Math and Science Study and International Literacy Study [http://www.timss.org/](http://www.timss.org/)

**Teacher Research**


Samaras, A. P., Adams-Legge, M., Breslin, D., Mittapalli, K., Magaha O'Looney, J., & Wilcox, D. R. (2007). Building a plane while flying it: Reflections of teaching and learning self-

**COURSE REQUIREMENTS:**

1. Attendance, Class and Online Participation and Peer Review (10%) 10 pts
2. Research Draft Components Posted on Class Discussion Thread (30%) 5 pts each
3. Teacher Research Project and Presentation (60%) 60 pts

1. **Attendance and Participation (10 pts)**

Attendance and participation at all classes, for the entire class period is a course expectation and absence will affect your grade. Arriving late twice equals one absence. 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 will arrive late or if you must miss class. You are responsible in working with your Critical Friend Team (CFT) for missed material. Come to class prepared to contribute your critical reflections of readings.

**Assignments and Evaluation**
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. Each assignment helps you build your final paper. 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 submitted as a file and submitted electronically under the respective Class Discussion Thread on Bb for the day that it notes POST. Title each assignment with your last name and the name of the project/assignment, e.g., Smith.ResProp.09.08.15. 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.

Visit the Discussion Thread to check updates each week: I post comments to you on the discussion thread but I individually email you your grade. Please check Bb for the comments.

Highly Recommended (not required) Weekly Researcher Log:
See exemplars with logs. 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.

Critical Friend Inquires as Peer Review
Your in-class activities involve sharing weekly updates, brainstorming ideas as a teacher about the classroom dilemma you are researching, exchanging ideas for strategies and lessons, and sharing how you are integrating standards in meaningful ways. As part of your course participation, you will have the opportunity to collaborate with critical friends as you develop your teacher research project. 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. It is your responsibility to respond to at least one CF for Discussion Threads #2, 4, & 6. Please be sure that each member receives a peer review. This is part of your participation grade. 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 (Samaras, 2011). Establish ground rules with “critical friends” and visit them often. Demonstrate positive professional dispositions. Professionals are responsible, ethical, and accountable.

Make it a habit to write regularly and save your work in multiple places.

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<tr>
<th>2. Research Draft Components: Post on Class Discussion Thread (30 pts) 5 pts each</th>
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*Please note:
You will find descriptions of assignments located in our text with examples from GMU secondary education alumni but the text and exemplars are resources. Use the templates and guidelines below and presented in class. That is, the purpose of the readings are to support your work but I have modified the assignments over time.

Completing each component will help you develop your final paper. Use the final paper rubric to self-assess your progress for each component

1) Discussion Thread #1: Research Artifact & Memo (will help w/ intro) (5pts)
2) Discussion Thread #2: Research Question & Rationale with Peer Review (5pts)
3) Discussion Thread #3: Draft Literature Review (5 pts)
4) Discussion Thread #4: Description of the Method: Data Chart & Pedagogies w/ Peer Review (5 pts)
5) Discussion Thread #5: Draft 1 for peer review (5 pts)

EDUC 675 SYLLABUS WILCOX FALL 2015
1) **Research Artifact & Memo:** Use prompts on pp. 105-106 in text.

2) **Research Question and Rationale with Peer Review:** Use pp. 114-116 in text

*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. To quote one of my former students, “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 this puzzlement? 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.

3) **Description of the Method: Data Chart & Pedagogies with Peer Review**

   See required reading exemplars: Mautz p.13; Payden pp. 10-11; Walsh p. 17

4) **Draft Literature Review:** See pp. 127-134 in text.

   Post a draft of your literature review on MyMason 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. Format is your choice, e.g. annotated bibliography, narrative to insert directly into final report.

5) **Draft 1 for Peer Review**

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

6) **Peer Review of Draft 1**

   Critical friends use actual evaluation rubric to provide peer review along with tracking and comments on draft.

7) **Draft 2 for Professor Formative Review**

   **Participation Rubric**

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<tr>
<th>Category</th>
<th>Exemplary 10 pts.</th>
<th>Accomplished 9 pts</th>
<th>Developing 8 pts</th>
<th>Undeveloped Below 8 pts</th>
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Assignments are central to the development of your project. Attendance and participation are critical components of this course. It gives you the opportunity to learn from and contribute to building a positive classroom experience and learning community. Participants contribute to each other’s learning by actively listening, exchanging ideas, sharing learning from reading and websites, peer view, and supporting each other’s efforts by providing feedback on Discussion Thread.

<table>
<thead>
<tr>
<th>5 pt. Assignments</th>
<th>Rubric Description for Discussion Threads #1-6</th>
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<tbody>
<tr>
<td>A+ Exemplary 5+ points</td>
<td>Presents an exemplary narrative in the assignment to build her/his self-study action research project with thoughtful and relevant detail. 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. Provides exemplary peer response to assignment where relevant.</td>
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<tr>
<td>Grade</td>
<td>Standards</td>
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</tr>
<tr>
<td>A</td>
<td>Meets Standard</td>
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<tr>
<td>A-</td>
<td>Meets Standard</td>
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<tr>
<td>B+</td>
<td>Approaches Standard</td>
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<tr>
<td>B</td>
<td>Approaches Standard</td>
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<tr>
<td>B-</td>
<td>Approaches Standard</td>
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All teacher research reports must adhere to APA format. Your project should be useful to you and your students. A written 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.

Please use this checklist for common errors before submitting your final paper:

1. Use Times Roman 12 pt. font, double-spaced throughout paper including between paragraphs.
2. Do not use right justification for formatting.
3. Do not use any identifying information of students, staff, school, or school system.
4. Cite all works properly. Need at least 10 references.
5. Spell out acronyms when you note them the first time. e.g., English Language Learners (ELL)
6. Include your data chart within the text of your paper.
7. Change everything to past tense, e.g., “I collected” instead of “I will collect.”
8. Include an appendix electronically only.
9. Check that your abstract is written in third person and includes an implications sentence.
10. Just clip report at the top; no report binders or plastic sleeves are necessary.

The points on Taskstream are 1-3. Your score will be converted into the Taskstream scoring once your final paper is posted.

**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?

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<tr>
<td>A- to A Exemplary</td>
<td>Provides a concise (125-150 words) summary that reports factually on the purpose of the study and the methods and procedures to be followed.</td>
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<tr>
<td>1.8 – 2 points</td>
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<tr>
<td>B to B+ Proficient</td>
<td>Provides an identifiable summary (125-150 words) that addresses the purpose of the study. Touches on methods and procedures to be followed, but is not sharply focused.</td>
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<td>1.6 – 1.7 points</td>
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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 sub-questions?

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<th>Grade/Points</th>
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<tr>
<td>A- to A</td>
<td>Establishes a sound context/theoretical framework for the study and a compelling rationale for its execution. Clearly and explicitly states the research question and purpose of the study.</td>
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<tr>
<td>Exemplary</td>
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<td>4.5 – 5 points</td>
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<tr>
<td>B to B+</td>
<td>Provides an adequate context/theoretical framework for the study and a defensible rationale for its execution, though one or both may be weakly developed. Explicitly states the research question and purpose of the study.</td>
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<tr>
<td>Proficient</td>
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<td>4 – 4.4 points</td>
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<tr>
<td>C</td>
<td>Provides minimal information on the context/theoretical framework for the study. 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.</td>
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<td>Approaching</td>
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<td>Proficiency</td>
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<td>3.5 – 3.9 points</td>
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Student work is so brief, incomplete, or off topic that any reasonably accurate assessment is impossible.

Assessment/Feedback: X/5

Literature Review (8 points possible)

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?

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<td>A- to A</td>
<td>Cites at least 10 peer-reviewed, published reports of empirical research. Highlights gaps in the literature to which the proposed study will respond. Organizes the literature by clearly identifiable themes, proceeding from general to more specific within each theme. Effectively synthesizes referenced sources, using few, if any, direct quotes.</td>
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<tr>
<td>Exemplary</td>
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<td>7.2 – 8 points</td>
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<tr>
<td>B to B+</td>
<td>Cites at least 8 peer-reviewed, published reports of empirical research. Highlights gaps in the literature to which the proposed study will respond. Organizes the 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.</td>
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<tr>
<td>Proficient</td>
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<td>6.4 – 7.1 points</td>
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<tr>
<td>C</td>
<td>Cites fewer than 8 peer-reviewed, published reports of empirical research. Does not explicitly highlight gaps in the literature to which the proposed study will respond. Summarizes cited works sequentially, rather than synthesizes and organizes them thematically. Relies heavily on direct quotes.</td>
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<tr>
<td>Approaching</td>
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<tr>
<td>Proficiency</td>
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<td>5.6 – 6.3 points</td>
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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?

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<td>F Un satisfactory  Less than 5.6 points</td>
<td>Student work is so brief, incomplete, or off-topic that any reasonably accurate assessment is impossible.</td>
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</table>
Assessment/Feedback: X/15

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?

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

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<td>A- to A Exemplary 9 – 10 points</td>
<td>Offers evaluation of the study’s strengths and weaknesses. Addresses theoretical/practical implications of study findings including how they will be 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.</td>
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<tr>
<td>B to B+ Proficient 8.0 – 8.9 points</td>
<td>Addresses theoretical/practical implications of study findings including how they will be shared with others. Highlights threats to validity, reporting on how they were addressed. Supports assertions/interpretations using sound arguments consistent with study findings. Does not describe recommendations for future research, or how results will be applied.</td>
</tr>
<tr>
<td>C Approaching Proficiency 7 – 7.9 points</td>
<td>Addresses practical implications of study findings including how they will be shared with others. Attempts to discuss threats to validity, but does so superficially and/or fails to offer antidotes. Does not consistently support assertions/interpretations using sound arguments consistent with study findings. Does not describe recommendations for future research, or how results will be applied in practice.</td>
</tr>
<tr>
<td>F Unsatisfactory Less than 7 points</td>
<td>Student work is so brief, incomplete, or off-topic that any reasonably accurate assessment is impossible.</td>
</tr>
</tbody>
</table>

**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 master’s 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?

<table>
<thead>
<tr>
<th>Grade/Points</th>
<th>Rubric Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A- to A+ Exemplary 4.5 – 5 points</td>
<td>Paper is well written with no notable drafting errors. Voice, verb tense, and writing style are consistent throughout. Technical terms are used 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.</td>
</tr>
<tr>
<td>B to B+ Proficient 4 – 4.4 points</td>
<td>Paper is well written with few notable drafting errors. Voice, verb tense, and writing style are generally consistent with few exceptions that do not 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.</td>
</tr>
</tbody>
</table>
Assessment/Feedback: X/5

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

*Undeveloped*: 53 points and below. Does not meet the project and report requirements. Weaknesses in addressing the majority of the criteria

Grading Scale for Course

<table>
<thead>
<tr>
<th>Grade</th>
<th>Standards</th>
<th>Grading</th>
<th>Grade Points</th>
<th>Graduate Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Meets Standard</td>
<td>93 – 100</td>
<td>4.00</td>
<td>Satisfactory / Passing</td>
</tr>
<tr>
<td>A-</td>
<td>Meets Standard</td>
<td>90 – 92.9</td>
<td>3.67</td>
<td>Satisfactory / Passing</td>
</tr>
<tr>
<td>B+</td>
<td>Approaches Standard</td>
<td>88 – 89.9</td>
<td>3.33</td>
<td>Satisfactory / Passing</td>
</tr>
<tr>
<td>B</td>
<td>Approaches Standard</td>
<td>83 – 87.9</td>
<td>3.00</td>
<td>Satisfactory / Passing</td>
</tr>
</tbody>
</table>
The M.Ed. Program exit requirement is a teacher research impact presentation which is completed during your capstone course, EDUC 675. The Teacher Research Impact Presentation is an ungraded requirement for EDUC 675, however, students are required to successfully complete a Teacher Research Impact Presentation in order to exit and graduate from the Secondary Education program. Your grade for EDUC 675 will be posted only upon successful completion of the Teacher Research Impact Presentation.

Working in a your theme-based critical friend team organized by broad areas of research interests, you will identify one authentic, alternative, contemporary media-based method through which you will share the impact of your teacher research. While you will make a brief presentation of your individual research findings in class, the mission of this assignment is for your collaborative to design and enact a presentation which brings together your papers and its impact of/for student learning and your professional development as a teacher (e.g., as differentiation, management, classroom environments, student engagement.) You might highlight the very importance of teacher research or summarize the findings of your group members’ efforts around a common theme or topic. Examples will be offered.

After your presentation, you are also encouraged to display and present these findings in an alternative setting and through creative means, with your primary goal being engaging in an exercise in demonstrating the significance of your teacher research to the broader world. You may potentially share your project with the Secondary Program Faculty and members of the larger college or educational community.

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/](http://cehd.gmu.edu/values/) For additional information on the College of Education and Human Development, visit our website [http://gse.gmu.edu/](http://gse.gmu.edu/).

CEHD PROFESSIONAL DISPOSITIONS
Students are expected to exhibit professional behaviors and dispositions at all times. [http://cehd.gmu.edu/assets/docs/forms/secondary_ed/sec_ed_handbook.pdf](http://cehd.gmu.edu/assets/docs/forms/secondary_ed/sec_ed_handbook.pdf)

The Graduate School of Education (GSE) expects that all students abide by the following:

Students are expected to exhibit professional behavior and dispositions.  

*Commitment to the profession*
  - Promoting exemplary practice
  - Excellence in teaching and learning
  - Advancing the profession
  - Engagement in partnerships

*Commitment to honoring professional ethical standards*
  - Fairness
  - Honesty
  - Integrity

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<thead>
<tr>
<th>Grade</th>
<th>Approaches Standard</th>
<th>GPA</th>
<th>Comment</th>
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</thead>
<tbody>
<tr>
<td>B-</td>
<td>Approaches Standard</td>
<td>80 – 82.9</td>
<td>2.67</td>
</tr>
</tbody>
</table>
Trustworthiness
Confidentiality
Respect for colleagues and students

**Commitment to key elements of professional practice**
Belief that all individuals have the potential for growth and learning
Persistence in helping individuals succeed
High standards
Safe and supportive learning environments
Systematic planning
Intrinsic motivation
Reciprocal, active learning
Continuous, integrated assessment
Critical thinking
Thoughtful, responsive listening
Active, supportive interactions
Technology-supported learning
Research-based practice
Respect for diverse talents, abilities, and perspectives
Authentic and relevant learning

**Commitment to being a member of a learning community**
Professional dialogue
Self-improvement
Collective improvement
Reflective practice
Responsibility
Flexibility
Collaboration
Continuous, lifelong learning

**Commitment to democratic values and social justice**
Understanding systemic issues that prevent full participation
Awareness of practices that sustain unequal treatment or unequal voice
Advocate for practices that promote equity and access
Respects the opinion and dignity of others
Sensitive to community and cultural norms
Appreciates and integrates multiple perspectives

**GMU Policies and Resources for Students**

1. **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/].


3. 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/

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

Sustainability at GMU
George Mason University is focusing on making our community “greener” and reducing the impact on the environment. This course will contribute to this effort in the following ways. I hope that you will create other ways to contribute to this effort.

- Handouts will be available electronically through the Blackboard platform.
- All assignments will be submitted through the Blackboard at MyMason.
- Please consider reducing waste in your teaching practice.
- Incorporate teaching sustainability in the content of your lesson plans (for example, human’s role in reducing their impact on the environment.) Think about what the next generation needs to know about “greening.”
<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Assignments</th>
<th>Readings</th>
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</thead>
<tbody>
<tr>
<td>“Online” indicates Bb participation and field work; online classes are in grey</td>
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<tr>
<td>Week #1</td>
<td>Introduction to Teacher Research: Self-Study Action Research Method</td>
<td>Post on Class Discussion thread before class where listed</td>
<td>During first week, read Preface, Chapter 1, &amp; Appendix A</td>
</tr>
<tr>
<td>9/1</td>
<td>Working with Critical Friends</td>
<td></td>
<td>Overview Teacher Research exemplars from Spring 2015 on Bb</td>
</tr>
<tr>
<td>On Campus</td>
<td>Finding/Refining your Research Question (RQ)</td>
<td></td>
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<tr>
<td>Week #2</td>
<td>Refining your RQ</td>
<td>Discussion Thread Assignment 1: Post Research Artifact &amp; Memo (use pp. 105-106 text)</td>
<td>Samaras &amp; Roberts, 2011</td>
</tr>
<tr>
<td>9/8</td>
<td>Drafting a Rationale and Argument</td>
<td>Begin your literature review (see p. 137)</td>
<td>Chapters 2 &amp; 4</td>
</tr>
<tr>
<td>On Campus</td>
<td>Using the literature to inform your study</td>
<td></td>
<td>See Table 2.1 to draft your timeline</td>
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<tr>
<td></td>
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<td></td>
<td>GMU Teacher Research Exemplars focus on Intro/Rationale:</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>K. Mayden, Fall 2014</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Mautz, Fall 2014</td>
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<td>Week #3</td>
<td>Research Design</td>
<td>Discussion Thread Assignment 2: Post RQ &amp; Rationale (see p. 124 text)</td>
<td>Hosteler, Hawley, Crowe et al., 2013</td>
</tr>
<tr>
<td>9/15</td>
<td>Being an Ethical Teacher Researcher</td>
<td></td>
<td>Chapters 6 &amp; 7</td>
</tr>
<tr>
<td>On Campus</td>
<td>In-class consultations</td>
<td></td>
<td>GMU Teacher Research Exemplar focus on Design &amp; Timeline:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mautz, Fall 2014</td>
</tr>
<tr>
<td>Week #4</td>
<td>Literature Review</td>
<td>Post Peer Review of Assignment #2: Peer Rationale &amp; RQ</td>
<td>Chapter 8</td>
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<tr>
<td>9/22</td>
<td></td>
<td>Use electronic databases for your literature review</td>
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<tr>
<td><strong>Online</strong></td>
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<tr>
<td>Week #5</td>
<td>Collecting Data</td>
<td>Discussion Thread Assignment 3: Post Literature Review</td>
<td>Chapter 9</td>
</tr>
<tr>
<td>9/29</td>
<td>In-class consultations</td>
<td></td>
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<tr>
<td><strong>On Campus</strong></td>
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<tr>
<td>Week #6</td>
<td>Collect Data in the Field</td>
<td>Discussion Thread Assignment 4: Post Description of Method: Data Chart incl Pedagogical Strategies See: Mautz p.13; Payden pp. 10-11; Walsh p. 17</td>
<td>Chapter 10</td>
</tr>
<tr>
<td>10/6</td>
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<tr>
<td><strong>Online and Field Work</strong></td>
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<tr>
<td>10/13</td>
<td>Mon classes meet instead of Tues class this day only</td>
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<tr>
<td>No Class</td>
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<tr>
<td>Week #7</td>
<td>Continue Collecting &amp; Analyzing Data</td>
<td>Post Peer Review of Assignment #4: Methods: Data Chart &amp; Pedagogies</td>
<td>No readings this week</td>
</tr>
<tr>
<td>10/20</td>
<td></td>
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<tr>
<td>Week #8 10/27</td>
<td>On Campus</td>
<td>Assessing Research Quality Validation Workshop</td>
<td><strong>Work on Draft 1</strong> Move charts into narrative format</td>
</tr>
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<tr>
<td>Week #9 11/3</td>
<td>Online</td>
<td>Writing your Results</td>
<td><strong>Discussion Thread Assignment 5:</strong> Post Draft 1 for peer review with preliminary results</td>
</tr>
<tr>
<td>Week #10 11/10</td>
<td>Online</td>
<td>Writing your Discussion and Critique</td>
<td><strong>Discussion Thread Assignment 6:</strong> Post Peer Review of Assignment #6: Draft 1 with tracking &amp; comments</td>
</tr>
<tr>
<td>Week #11 11/17</td>
<td>On Campus</td>
<td>Finalizing your Paper In-class writing of abstract In-class consultations</td>
<td><strong>Discussion Thread Assignment 7:</strong> Post Draft 2 for Professor Review with results and discussion sections</td>
</tr>
<tr>
<td>Week #12 11/24</td>
<td>Online</td>
<td>Finalize Teacher Impact Presentations</td>
<td>Meet with group to finalize presentation</td>
</tr>
<tr>
<td>Week #13 12/1</td>
<td>On Campus</td>
<td>Teacher Impact Group Presentations</td>
<td>POST Teacher Impact Presentation</td>
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<tr>
<td>Week #14 12/8</td>
<td>On Campus</td>
<td>Individual Presentations In 5 minutes tell us: 1. your RQ 2. Rationale 3. key discoveries 4. most valuable insight/mistake</td>
<td>POST and BRING hard copy of Teacher Research Project Post Appendix online only.</td>
</tr>
</tbody>
</table>