EDUCATION HUMAN DEVELOPMENT



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

## Research in Secondary Education EDUC 597 - A02

2 Credits Summer 2022 Monday, Wednesday, Friday: 7:20 p.m. - 9:00 p.m. Class Location: Fairfax Campus, Thompson Hall 1020

Promoting Learning Development Across the Lifespan

Instructor: Dr. Lynda Herrera

Office Hours: By appointment in person or via Zoom <u>https://gmu.zoom.us/j/2601356921</u> Office Location: SEED Program office Thompson Hall 1800; Fairfax campus Email: <u>herrer8@gmu.edu</u> Mobile Phone: 917-703-1404 (for voice calls only between the hours of 9 a.m.- 5 p.m.; no texts please) Synchronous Class Zoom Link: <u>https://gmu.zoom.us/i/2601356921</u>

### **Course Description**

**SEED 675:** *Research in Secondary Education.* 3 credits. Links evidence of student learning to make informed instructional decisions. Engages students in critiquing various research paradigms, reviewing literature, and systematically collecting and interpreting evidence to improve practice. Notes: All students enrolled in this course must be working daily in or have access to a classroom setting classroom setting (during the semester in which they enroll in this course or a semester following), since the major course assignment involves a classroom-based teacher research project. Offered by <u>School of Education</u>. May not be repeated for credit. Equivalent to <u>EDUC 675</u>. **Recommended Prerequisite:** <u>SEED 540</u>, <u>SEED 522</u> **Recommended Corequisite:** For students seeking English licensure: <u>SEED 669</u> and <u>EDRD 619</u> For students seeking math licensure: <u>SEED 672</u> and <u>EDRD 619</u> For students seeking computer science licensure: <u>SEED 676</u> and <u>EDRD 619</u> For students seeking computer science licensure: <u>SEED 676</u> and <u>EDRD 619</u> **Required Prerequisites:** (<u>SEED 569<sup>B</sup></u>, 569<sup>XS</sup>, 572<sup>B</sup>, 573<sup>XS</sup>, 567<sup>B</sup>, 567<sup>XS</sup>, 566<sup>B</sup> or 566<sup>XS</sup>). <sup>B</sup> Requires minimum grade of B. **Prerequisites/Corequisites** SEED 522 (required prerequisite), SEED 669/ EDRD 619 (required prerequisites or corequisites), SEED 440/540 (recommended prerequisite; formerly EDUC 372/672).

**PLEASE NOTE:** The course is SEED 675 but with the 2+1 credit conversion SEED is using the temporary course number of EDUC 597. The combination of 2-credit (this course) and 1-credit course (future semester) to reach the required 3-credit research total.

## **Course Overview**

The purpose of this course is for you to learn how to design and conduct a teacher research project situated in a classroom with the goal of improving your teaching and your students' learning. The course is designed to promote a professional teaching and learning community with peer review/critical friend support. Throughout the course, you will complete stages of your research project (proposal) to compile into your final paper. Your ultimate success with the final project requires your ongoing commitment to each step in the process and collaboration with peers for reciprocal review. As a whole course, it provides an opportunity for your personal and ongoing professional development.

This course will continue in a 1-credit accompaniment course Fall 2022 on **Tuesdays:** 7:20 p.mm-10:00 p.m. on the Fairfax Campus for students to complete the research project. A 1-credit syllabus will be provided at that time.

## **Course Delivery Method**

All SEED classes have designated delivery modes and specific modes for each class session (e.g., face-to-face, virtual synchronous, virtual asynchronous). Most SEED classes will be held in a face-to-face mode on the Fairfax campus. **Students are expected to attend every class session in the mode that it is offered.** If you must miss a class session for illness or another valid reason, you are expected to proactively communicate (ahead of the class session) with your instructor about your expected absence. This course uses a hybrid mode, this course has face-to-face meetings and a combination of online synchronous meetings and asynchronous tasks. See the Class Schedule for details. Please see page 13-14 of this syllabus for Technical Requirements and Expectations. Material will be presented, and course objectives met in a variety of ways, including through class discussions, small and large group activities, individual and group work sessions, lecture, on-site research, and student presentations in a hybrid format. Visual aids and various uses of technology will be used to complement an interactive approach to learning. As the teacher of this class, I am available for discussion and support during office hours, via phone and by e-mail. Let's keep in touch!!!

Under no circumstances, may candidates/students participate in online class sessions (either by phone or Internet) while operating motor vehicles. Further, as expected in a face-to-face class meeting, such online participation requires undivided attention to course content and communication.

Learner Outcomes/Objectives

Upon successful completion of this course, and the 1-credit accompaniment course, students will be expected to meet these course objectives:	Methods by which your acquisition of each objective are measured:
Demonstrate an understanding of the process and components used in teacher research by conducting and assessing a chosen scholarly inquiry project situated in their classroom and impact on students' learning	<ul> <li>Active Participation</li> <li>Class Discussions</li> <li>Textbook Reading</li> <li>Article Readings/Video assignments</li> <li>Class assignments</li> <li>Written Responses</li> <li>Draft Research Project Components</li> <li>Constructive Peer Group Work</li> <li>Teacher Research Project</li> <li>Research Presentation</li> </ul>
Prepare a research proposal which makes explicit links between theory and practice	<ul> <li>Written Responses</li> <li>Draft Research Project Components</li> <li>Constructive Peer Group Work</li> <li>Teacher Research Project</li> <li>Research Presentation</li> </ul>
Examine ethical considerations when conducting teacher research	<ul> <li>Active Participation</li> <li>Class Discussions</li> <li>Textbook Reading</li> <li>Article Readings/Video assignments</li> <li>Class assignments</li> <li>Written Responses</li> </ul>
Conduct teacher research which includes research question(s), a research proposal, a review of related literature, methods/design, data collection/analysis, findings, and a discussion of impact on students, teachers, and the education field	<ul> <li>Active Participation</li> <li>Class Discussions</li> <li>Textbook Reading</li> <li>Article Readings/Video assignments</li> <li>Class assignments</li> <li>Written Responses</li> <li>Draft Research Project Components</li> <li>Constructive Peer Group Work</li> <li>Teacher Research Project</li> <li>Research Presentation</li> </ul>
Participate in critical and collaborative inquiries to gain multiple perspectives in interpreting research and for validation and peer review of research	<ul> <li>Active Participation</li> <li>Class Discussions</li> <li>Class assignments</li> <li>Written Responses</li> <li>Constructive Peer Group Work</li> </ul>
Demonstrate integration of national and state standards for content and pedagogy as related to their research question(s) by reflecting on their own teaching practice and its impact on students' learning	<ul> <li>Active Participation</li> <li>Class Discussions</li> <li>Class assignments</li> <li>Written Responses</li> <li>Constructive Peer Group Work</li> </ul>
Demonstrate skills in the application of technology and use of resources in teacher research	<ul><li>Teacher Research Project</li><li>Research Presentation</li></ul>

## **Professional Standards**

By the end of this course 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):

- Social studies teachers: National Council for the Social Studies, <a href="http://www.ncss.org">http://www.ncss.org</a>
- English teachers: National Council of Teachers of English, http://www.ncte.org
- Math teachers: National Council of Teachers of Mathematics, <u>http://www.nctm.org</u>

Science teachers: National Science Teachers Association, <u>http://www.nsta.org</u>

Students should also have an understanding of and be able to apply the standards of the Interstate New Teacher Assistance and Support Consortium (INTASC): <a href="https://ccsso.org/sites/default/files/2017-12/2013\_INTASC\_Learning\_Progressions\_for\_Teachers.pdf">https://ccsso.org/sites/default/files/2017-12/2013\_INTASC\_Learning\_Progressions\_for\_Teachers.pdf</a>

## The Secondary Education (SEED) Program "Seeds"



As illustrated by the model above, the SEED program is guided by five "Seeds" or principles that students are expected to understand and learn to apply in their teaching and professional lives: Social Justice, Inquiry and Reflection, Advocacy and Agency, Partnership and Collaboration, and Respect and Relationship. SEED students address each Seed in a developmental fashion, twice during their licensure program and once again during the master's teacher research capstone

- Students address each Seed in a developmental fashion, twice during their incensure program and once again during the master's teacher research capacity experience:
  Each Seed is introduced, and students demonstrate initial understandings and consider initial applications to teaching of the Seeds (as determined by the program and course instructor) during one of the five pre-licensure courses ("Foundations," Methods I, Human Development, Methods II, Content Literacy)
  All five Seeds are revisited, and students demonstrate deeper conceptual understandings of and identify applications to their teaching of the Seeds (in a

  - manner they determine) during internship and internship seminar. All five Seeds are explored more deeply, and students demonstrate mastery understandings of, applications to their teaching and teaching inquiries (via their teacher research Methodologies), and future integrations of the Seeds into their teaching and teaching inquiries (via their teacher research Methodologies), and future integrations of the Seeds into their teaching and teaching inquiries (via their teacher research Methodologies), and future integrations of the Seeds into their teaching and teaching inquiries (via their teacher research Discussions)

Course	Seed/Definition	Key Assignment Description
Foundation s of Secondary Education	Advocacy and Agency The SEED program educates teachers to develop a commitment to advocating for and developing agency in every young person. Teachers' advocacy activities begin with pedagogical interactions and extend into school and community contexts. Similarly, teachers' consideration of youths' agency begins with enabling them to act independently and make choices in their own best interests—in the classroom and beyond.	Multi-Genre Blog The multi-genre blog is a collection of self-contained artifacts, representing multiple genres, united by a common theme. Each piece included in the collection must represent an aspect of the teacher candidate's teaching philosophy, and be drawn from their research, clinical and life experience, and class discussions. The blog must demonstrate the teacher candidate's understanding of why and how they will advocate for their students' well-being and success and help their students develop greater agency in school and beyond.
Methods I	Social Justice The SEED program educates teachers to develop a commitment to social justice. Such a commitment encompasses the belief that all members of our school, university, and broader communities can contribute to disrupting inequitable interactions, practices, and structures, with a focus on enhancing each individual's opportunity to learn and succeed. Social justice is also closely aligned with equity, which involves the implementation of anti-oppressive and antiracist interactions, practices, and structures that ensure that every individual has an unbiased, impartial, responsive, and appropriately scaffolded opportunity for academic and professional success.	Lesson Plan Using a provided format, the lesson plan must include objectives, standards, instructional plans, assessments, classroom layout(s), a teacher script, and all materials that would be given to students as part of the lesson. The lesson must demonstrate the teacher candidate's ability integrate justice concepts/content into their instruction.
Human Developme nt and Learning	Relationships with and Respect for Youth The SEED program educates teachers to develop relationships with and respect for youths. When a school culture promotes respect, support for students' identities, senses of belonging, and tolerance, students are able to work as active participants in the classroom and the community. Secondary teachers who create a welcoming environment in their classrooms; who strive to know and honor students' backgrounds, preferences, and perspectives; who build relationships with young people based on trust and mutual understanding; and who connect curriculum to students' cultures hold key to effective instruction. Their instruction will contribute to developing unique individuals who will be able to connect their life experiences to learning.	Case Study/Student Application Project The case study/student application project is a summative assessment of the teacher candidate's ability to use psychological theory to analyze problems in a classroom and practice approaches a thoughtful, ethically principled teacher would use to solve problems. The case study/student applicant project must demonstrate the teacher candidate's understanding of how and why teachers can use psychological theories and principles to develop relationships with and demonstrate respect for youths, with an ultimate goal of enhancing adolescents' school and life success.
Methods II	Inquiry and Reflection The SEED program educates teachers who appreciate and know how to ask questions about their practices and who are critically reflective of their pedagogies, empowered by evidence. The ability to inquire and reflect on one's teaching practice is foundational to educators' ongoing and self-directed professional growth across their professional lifespans. Educators who can inquire into and consistently implement effective instructional practicesand who can critically reflect on and evaluate their pedagogieswill be the most responsive teachers and will best inspire students to learn.	Unit Plan/Lesson Implementation Teacher candidates will use the "backwards design" process to develop a plan for teaching a unit which actively involves students in meaningful learning; individualizes learning to accommodate the strengths and needs of students; and provides authentic assessments. Unit plans will include objectives, a calendar, and an outline of each day in the unit. One lesson of the unit must be taught/co-taught in the teacher candidate's clinical experience classroom, and the unit plan and lesson implementation must demonstrate the candidate's understanding of how and why teachers use inquiry and reflection to improve their pedagogical practices and enbance student learning.
Content Literacy	Collaboration and Partnership The SEED program educates teachers who value collaborative engagement in learning and teaching and supporting collaboration through different forms of partnership. Collaboration takes on many forms, including collaboration amongst teacher candidates and their peers, course instructors and faculty advisors, mentor teachers in schools, their students and their students' families and caregivers, and amongst experts in their fields of teaching. These collaborations occur through a shared understanding of partnership. By spanning multiple boundaries, the SEED program supports partnerships with local schools and their divisions, with state and national professional associations, and with international experiences in other countries.	Disciplinary Literacy Inquiry Project Teacher candidates complete an inquiry into methods of supporting students' comprehension in their respective content areas. Using resources from class and peer-reviewed articles, candidates develop an understanding of how to guide and deepen students' comprehension, addressing questions including "Why is it important to be literate in our respective subject areas?". The inquiry project must demonstrate the candidate's understanding of how why teachers collaborate with other education professionals, students, families and caregivers and others to support students' subject area comprehension and literacy learning.
Internship and Internship Seminar	All SEED Seeds: Applications to Teaching All five Seeds are revisited, and students demonstrate deeper conceptual understandings of and identify applications to their teaching of the Seeds during internship and internship seminar.	
Teacher Research (for master's students only)	research Methodologies), and future integrations of the Seeds into their teaching and teaching inquiries (via their teacher research Discussions)	

### **Required Texts**

**Required Text** 

Mertler, C. (2020). Action research: Improving schools and empowering educators (6th ed.). SAGE Publications.

**Note:** The textbook includes important online resources at <a href="https://edge.sagepub.com/mertler6e">https://edge.sagepub.com/mertler6e</a>. Additional readings, web-based resources, and exemplars will be showcased to highlight specific research components; these will be provided as PDFs and links via Blackboard.

American Psychological Association (2020). Publication manual (7th ed.). American Psychological Association.

### **Additional Resources**

### Action Research

Baily, S., Shahrokhi, F., & Carsillo, T. (2017). *Experiments in agency: A global partnership to transform teacher research*. Sense Publishers.

Kemmis, S., McTaggart, R., & Nixon, R. (2013). *The action research planner: Doing critical participatory action research*. Springer Science & Business Media

McNiff, J. & Whitehead, J. (2009). You and your action research project. Routledge.

McNiff, J. (2016). Writing up your action research project. Routledge.

Mills, G. E. (2018). Action research: A guide for the teacher researcher (6th ed.). Pearson.

Noffke, S. E., & Somekh, B. (2009). The SAGE handbook of educational action research. SAGE Publications.

### Qualitative Design and Analysis

Creamer, E.G. (2018). An introduction to fully integrated mixed methods research. Thousand Oaks, CA: SAGE Publishing Denzin, N. K., & Lincoln, Y. S. (Eds.). (2011). The Sage handbook of qualitative research (4th ed.). Thousand Oaks, CA: Sage.

Maxwell, J.A. (2013). Qualitative research design: An interactive approach (3rd ed.). SAGE Publications.

Patton, M. Q. (2015). Qualitative research and evaluation methods (4th ed.). Thousand Oaks, CA: Sage.

Saldaña, J. (2016). The coding manual for qualitative researchers (3rd ed.). Thousand Oaks, CA: Sage.

Stake, R. E. (2006). Multiple case study analysis. New York: Guilford Press.

Ravitch, S. M., & Carl, N. M. (2021). Qualitative research: Bridging the conceptual, theoretical, and methodological. SAGE Publications

Yin, R. K. (2014). Case study research: Design and methods (5th ed.). Thousand Oaks, CA: Sage.

## There are teacher exemplar action research papers for each content area located on Blackboard in the course content folder.

### **Course Performance Evaluation**

### Assignments

Students are expected to submit all assignments on time using Blackboard, and, when indicated VIA or other online submission system. Late work will not be accepted without a prior request.

Assignment	Points	Due Date
Active Participation/ Protocol Adherence	100	Ongoing
Written Response	100	#1 – May 23; #2– May 25; #3 – May 27; #4 – June 3
Research Article Critiques	100	June 15
Asynchronous Assignments	100	#1 June 10; #2 June 17
Template	50	June 1
Draft Setting and Constructive Peer Group Review	100	June 3
Draft Introduction and Constructive Peer Group Review	100	June 6
Draft References and Constructive Peer Group Review	50	June 22
Literature Review	300	June 26
TOTAL	1000	

## The 1000 points are converted to the 100-point grading scale below.

Graduate Grading Scale:

Grade	Standards	Grading	Graduate Courses
A	Meets Standard	95 – 100	Satisfactory / Passing
A-	Meets Standard	90 – 94	Satisfactory / Passing
B+	Approaches Standard	87 – 89	Satisfactory / Passing

В	Approaches Standard	83 – 86	Satisfactory / Passing
B-	Does Not Meet Standard	80 – 82	B- is not a passing course grade for licensure
С	Does Not Meet Standard	70 – 79	C is not a passing course grade for licensure
F	Does Not Meet Standard	Below 70	F is not a passing course grade for licensure

- "A" level score = Student work is well-organized, exceptionally thorough, thoughtful, candid, and completed in a professional and timely
  manner. Student followed all format and component guidelines, as well as including additional relevant component. Student supports
  assertions with multiple concrete examples and/or explanations. Significance and/or implications of observations are fully specified and
  extended to other contexts. Student work is exceptionally creative, includes additional artifacts, and/or intentionally supports peers'
  efforts.
- "B" level score = Student work is well organized, thorough, thoughtful, candid, and completed in a professional and timely manner. Student followed all format and component guidelines. Student supports assertions with concrete examples and/or explanations. Significance and/or implications of observations are fully specified.
- "C" level score = Student provides cursory responses to assignment requirements. Student did not follow all format and component guidelines. Development of ideas is somewhat vague, incomplete, or rudimentary. Compelling support for assertions is typically not provided.
- "F" level score = Student work is so brief that any reasonably accurate assessment is impossible.
- Incomplete (IN): This grade may be given to students who are passing a course but who may be unable to complete scheduled course
  work for a cause beyond reasonable control. The student must then complete all the requirements by the end of the ninth week of the
  next semester, not including summer term, and the instructor must turn in the final grade by the end of the 10th week. Faculty may grant
  an incomplete with a contract developed by the student with a reasonable time to complete the course at the discretion of the faculty
  member.

## ASSIGNMENTS: CRITERIA FOR MEETING COURSE REQUIREMENTS

### Assignment 1 Active Participation/ Protocol Adherence

# DUE: Ongoing POINTS: 100

**PURPOSE:** Continuous attendance, active participation, and adherence to protocol procedures are the attributes that allow our class sessions to be collaborative, maintain high standards, and encourage learning to take place. Students are expected to attend all class periods of courses for which they register. Class attendance and participation with the whole group, in constructive peer groups (CPG), and in 1-on-1 conferences are important - not only to the individual student, but to the class as whole. This course is designed to provide ongoing opportunities to learn through conversation. These conversations provide spaces for you to think out loud, to explore your conceptional understandings, to share uncertainties and successes, to ask questions, and to learn from each other. Like written assignments, class participation is both a central means of learning and an assessment tool. Your participation will be determined by your ACTIVE participation in class activities and discussions, your professional conduct in class, and clear evidence that you have completed course readings and tasks. Absences, tardiness, or early departures as de facto evidence of nonparticipation and as a result lower the grade.

**PROCEDURE:** Attendance is a prerequisite for class participation, **absences and tardiness will have a negative impact** on your participation grade. Attend each class session and actively participate in class discussions and activities without extraneous distractions and off-task activities (i.e., texting, reading email, etc....). This applies to in-person AND online classes.

	Rubric	
	Acceptable	Unacceptable
ACTIVE PARTICIPATION	-participates <i>actively</i> in each class discussion and activities (asks questions, engages in topics conversation, partakes in hands-on activities, etc). -participation is respectful and inclusive of others in the class. -spends time only on the tasks associated with this course and the instructor's directions. -comes to class with knowledge of prepared readings and pre-class assignments - clear evidence of completion of course tasks -online classes: Students maintain video "on" status -follows GMU's policies on attendance and code of conduct as indicated in the University Catalog -attends all class sessions on time, remains in class sessions for the duration.	-does not participate <b>actively</b> in each class discussions and activities -participation is not respectful and inclusive of others in the class. -does not spend time only on the tasks associated with this course and the instructor's directions. -did not come to class with knowledge of prepared readings and pre-class assignments - no evidence of completion of course tasks -online classes: Students maintain video "off" status -does not follow GMU's policies on attendance and code of conduct as indicated in the University Catalog -absent from class session -tardy to class sessions -departed class sessions early

PROTOCOL POLICY /25	-attention is focused on activities and discussion while in class: does not engage in personal emails, instant messaging, texting, social media, games, and web surfing. -electronic devices are off or in sleep mode unless using the device for notetaking -demonstrates ethical and responsible behavior in class and on the GMU network. -mobile telephones are on silent. -emergency telephone calls are taken outside of the classroom. -professional conduct in class by participating appropriately in conversation by using appropriate terms, being inclusive and respectful to the instructor and fellow classmates. -uses professional and ethical judgment when posting messages on social media networks. (NOTE: DO NOT post pictures of children or classmates on any social media platform.) -follows GMU's policies on attendance and code of conduct as indicated in the University Catalog	<ul> <li>-attention is NOT focused on activities and discussion while in class by activities such as:</li> <li>engages in personal emails, instant messaging, texting, social media, games, and web surfing.</li> <li>-does not demonstrate ethical and responsible behavior in class and on the GMU network.</li> <li>-does not use professional and ethical judgment when posting messages on social media networks.</li> <li>-is not professional conduct in class by participating appropriately in conversation by using appropriate terms, being inclusive and respectful to the instructor and fellow classmates.</li> <li>-does not follow GMU's policies on attendance and code of conduct as indicated in the University Catalog</li> <li>- does not follow GMU's policies on attendance and code of conduct as indicated in the University Catalog</li> </ul>

### Assignment 2 Written Responses

## DUE:

#1 – May 23 #2– May 25 #3 – May 27

#4 – June 3

## POINTS: 100 (25 points per response)

**PURPOSE:** A research course is very different from other courses in the secondary education program because you are learning research techniques and implementing those techniques in a classroom setting. The course challenges you to think and engage with research. It is important to connect with the content you read to ensure you analyze the content in an appropriate manner. To accomplish this engagement, you will be required to complete written assignments throughout the course.

## PROCEDURE:

A. Written Responses: You will have four (4) written assignments throughout the semester. See the class schedule for specific assignments and due dates. Write each response on a Microsoft Word document and upload to the appropriate Blackboard assignment.

Ruble for Exon Whiten Response			
	Excellent	Adequate	Unacceptable
Written responses /15	-provides detailed responses to the question(s) for the assigned reading in the word limit or -completes assignment associated with reading with detailed responses -response is submitted via Blackboard on a Microsoft Word document	-provides mostly detailed responses to the question(s) for the assigned reading -word limit is mostly followed or -completes assignment associated with reading	-does not complete the written response -response contains little detail or does not respond to the provided question(s) for the assigned reading in the word limit -response is not submitted via Blackboard on a Microsoft Word document
Quality /10	-Format and writing are of professional quality (double spaced, error free, well composed and articulated, overall quality work).	-Format and writing flow well and are easy to read with only minor typos and mistakes.	-Format and writing are incomplete, disorganized, unedited, and/or difficult to follow.

### **Rubric for EACH Written Response**

Assignment 3 Research Article Critique

DUE: June 15th

### POINTS: 100 (20 points per critique)

**PURPOSE:** A research course is very different from other courses in the secondary education program because you are learning research techniques and implementing those techniques in a classroom setting. The course challenges you to think and engage with research. It is important to engage with the content you read to ensure you analyze the content in an appropriate manner. To accomplish this engagement, you will be required to complete written assignments throughout the course.

## **PROCEDURE:**

A. Research Article Critiques: You are required to incorporate a minimum of five (5) peer reviewed, academic based journal articles into the literature review section of your research project. Each article must be read and critiqued using the 'Research Article Critique' found on Blackboard and provided in class. See the class schedule for specific due dates. You may handwrite your response, scan, and upload to the Blackboard assignment. Or you may complete each response using the provided Microsoft Word template document on Blackboard which you will complete and upload to the Blackboard assignment.

	Excellent	Adequate	Unacceptable
Critique /20	-completes all sections of Research Article Critique -Article is appropriate for selected research study critique is submitted via Blackboard on the Microsoft Word document template or scanned handwritten template	X	-does not complete assignment Research Article Critique

### Rubric for EACH Research Article Critique Assignments

### Assignment 4 Asynchronous Assignments

DUE: #1 June 10th; #2 June 17th

**POINTS**: 100 (50 points per assignment)

**PURPOSE:** The course requires you to complete asynchronous assignments. These assignments ensure you are thinking about, and engaging in, the research process.

**PROCEDURE:** Asynchronous assignments will be provided during asynchronous class sessions via PowerPoint. Follow the procedures described in the PowerPoint.

	Rubhe for EAch Research Article onlique Assignments		
	Excellent	Adequate	Unacceptable
Critique /40	-completes the required assignment as indicted in the asynchronous PowerPoint. -Assignment is completed by due date -Assignment is completed with a thoughtful response where required	-somewhat completes the required assignment as indicted in the asynchronous PowerPoint. -Assignment is completed with a somewhat thoughtful response.	-does not complete assignment Research Article Critique –Assignment is completed by late without prior permission
Quality /10	-Format and writing are of professional quality (double spaced, error free, well composed and articulated, overall quality work).	-Format and writing flow well and are easy to read with only minor typos and mistakes.	-Format and writing are incomplete disorganized, unedited, and/or difficult to follow.

### Rubric for EACH Research Article Critique Assignments

## Assignment 5 Draft Research Project Components and Constructive Peer Group Reviews

DUE:		
Template June 1 Setting: June 3	Introduction: June 6 References: June 22	

### POINTS:

Setting: 100 References: 50		Template 50 Setting: 100	
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**PURPOSE:** Research does not occur overnight – it is a thoughtful, paced, and monitored process. We have you complete various drafts of each section of your final project to ensure you carry out your research project in a logical, step by step process. This ensures you are conducting your research in a timely manner and in a way that safeguards the process for you and your student participants. 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. Please see "Research Project Outline" located on Blackboard for specific descriptions of each section.

## PROCEDURE:

- Draft: You will submit ONE Microsoft word document on Blackboard through the template you create. The document will contain the five research project sections: the introduction, literature review, methodology, findings, discussion along with the title page, appendices, and references. You will add to the document as you progress through each graded component. This ONE document will be added to each time you complete a component of the research project and uploaded to Blackboard. The below rubric is used each time one of the draft components is submitted to the instructor (except for the original template).
- 2. Constructive Peer Group: You will be placed in Constructive Peer Groups. You will share your ONE Microsoft word document with your Constructive Peer Group for your peer to provide feedback to you the "Constructive Peer Group Review of Research Project Form" (located on Blackboard). The below rubric is used each time (expect for the template) one of the draft components are submitted to your peer. You will upload the "Constructive Peer Group Review of Research Project Form" to Blackboard as another attempt at the assignment. For example: Jane and John are peer reviewers for each other. Jane uploads her draft setting as attempt 1 and the Constructive Peer Review of Research Project Form" she provided to John for the draft setting as attempt 2.
- There will be 4 assignments on Blackboard: Draft Template, Draft Setting, Draft Introduction, Draft References. You
  will upload your ONE Microsoft word document to each of these assignments AND your Constructive Peer Group
  Review of Research Project Form provided to you from your peer.

Rubric for component marked:         Template:          Introduction:          References:						
	Exceller	nt	Adequate	Unacceptable		

## Rubric for each draft component

Draft submitted for completion to instructor Template /50 Setting: /50 Introduction: /50 References: /25	-draft component was uploaded to Blackboard by due date/time -draft includes much detail for all items for the component as described in the "Research Project Outline" -Format and writing are of professional quality (double spaced, error free, well composed and articulated, overall quality work, organized)	-draft component was uploaded to Blackboard by due date/time -draft includes some detail for all items for the component as described in the "Research Project Outline" format and writing flow well and are easy to read with only minor typos and mistakes. -somewhat professional -some unorganized areas -draft component is missing as described in the "Research Project Outline"	draft component was not uploaded to Blackboard by due date/time -draft lacks detail and is difficult to understand for the component as described in the "Research Project Outline" -format and writing are incomplete, disorganized, unedited, and/or difficult to follow. -not professional looking -not organized -sloppy		
Draft submitted for Peer Review Setting: /50 Introduction: /50 References: /25	-Embraces peer review process -Met with Constructive Peer Group face-to-face or virtual during assigned time -peer completes Constructive Peer Group Review of Research Project Form with detailed advice. -peer review is thoughtful, constructive, and complete. -glow/grow statements are used	peer completes Constructive Peer Group Review of Research Project Form with minimal advice. -peer review does not provide detailed guidance for improvement, is not thoughtful or constructive, incomplete -somewhat uses glow/grow statements to support peer	-Does not meet with Constructive Peer Group face- to-face or virtual -Does not complete Constructive Peer Group Review from for peer - Constructive Peer Group Review of Research Project Form is completed but with very minimal feedback -peer review is not thoughtful -feedback is very critical and not constructive. -does not use glow/grow statements to support peer -shows little concern for peers' learning or input or peer review		
	Assignment 5 Action Research Literature Review				

#### DUE: June 26 **POINTS: 300**

PURPOSE: The purpose of this course is to link evidence of student learning to make informed instructional decisions. This assignment aims to engage students in producing a literature review for a future action research project in the awith the intention of engaging students in critiquing various research paradigms and systematically collecting and interpreting evidence to improve practice

**PROCEDURE:** Each participant will design and conduct a teacher action research project in the future 1-credit accompaniment SEED course that is relevant to your present or future teaching position. Outlines, examples, descriptions, and rubrics of these projects will be provided. The project will entail that you collect and analyze data and share the results of your study with our class. With special permission from the instructor, it is possible to partner with another student for the purpose of sharing data and researching different aspects of a common topic; each partner, however, must submit an original, stand-alone report. You will write a literature review with that future project in mind. Please note that B- is not a passing grade for this assignment.

Special note: Human Subjects in Research: Any research or action research that will be disseminated publicly must have prior approval of the GMU Research Development, Integrity, and Assurance (RDIA) office or the Institutional Review Board (IRB). Human Subjects Training must be completed prior to seeking RDIA/IRB approval. Inquiry/action research that is used solely for the purpose of studying pedagogical aspects may be conducted without additional permission but cannot be disseminated. Detailed information on what is involved in submitting a proposal to the RDIA/IRB: Human Subjects - Office of Research Integrity and Assurance (https://oria.gmu.edu/topics/humansubjects/)

Please note that projects or papers submitted for credit in another course cannot be used for a grade in this course. When considering research topics, you should identify a research question that really matters to you. It should be something about which you are curious and with which you are willing to spend time researching and learning.

The below rubric is used to grade the final action research project in a future SEED course. The literature review section is used to grade the final literature review for this course. The total point, highlighted in green below, on this rubric is multiplied by 20 to convert to a 300 point scale.

BELOW EXPECTATIONS	APPROACHES EXPECTATIONS	MEETS EXPECTATIONS	EXCEEDS EXPECTATIONS
0-3.5 points / F	3.5-4 points / C	4-4.5 points / B	4.5-5 points / A

Title Page and Abstract 1 page each 5 points	Abstract is so brief, incomplete, or off- topic that accurate assessment is impossible.	Includes only general statements about the study. Information on methods and procedures to be followed is sketchy or missing. Outside of required length.	Includes an identifiable summary that addresses the purpose of the study. Mentions methods and procedures to be followed but not sharply focused.	Project includes a concise summary that reports factually on the purpose of the study and the methods and procedures to be followed.
	0-6.9 points / F	7-7.9 points / C	8-8.9 points / B	9-10 points / A
Introduction, Rationale, Area of Focus, and Research Questions 3-4 pages, 10 points	Section is so brief, incomplete, or off- topic that accurate assessment is impossible. Does not clearly explain the context or state the research purpose or questions.	Project includes minimal information on the context framework for the study. Does not offer a rationale for the study or does so only superficially. States the research question and purpose of the study but may be unclear or lack specificity.	Project includes 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.	Project includes 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.
	0-10.5 points / F	10.5-12 points / C	12-13.5 points / B	13.5-15 points / A
Literature Review 4-6 pages 15 points	Literature review is so brief, incomplete, or off- topic that accurate assessment is impossible.	Includes fewer than 8 peer- reviewed empirical research sources. Does not make a clear case for the project focus. Summarizes cited works sequentially, rather than synthesizing and organizing them thematically. Relies heavily on direct quotes.	Includes at least 8 peer- reviewed empirical research sources. Makes a reasonable case for the project focus. Organizes the literature by identifiable themes, although organization within themes may be unclear. Attempts to synthesize referenced sources. Uses few direct quotes.	Includes at least 10 peer- reviewed empirical research sources. Identifies gaps in the literature to which the study responds and makes a clear case for the project focus. 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.
	0-13.9 points / F	14-15.9 points / C	16-17.9 points / B	18-20 points / A
Method 4-6 pages 20 points	Methods section is so brief, incomplete, or off- topic that accurate assessment is impossible. Does not clearly describe how the study was conducted, what data sources were used, or how data were analyzed.	Includes explanation of the 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	Includes explanation of 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.	Includes explanation and justification of 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.
	0-13.9 points / F	14-15.9 points / C	16-17.9 points / B	18-20 points / A
Results/ Findings 8-12 pages 20 points	Results/findings section is so brief, incomplete, or off- topic that accurate assessment is impossible. Does not clearly explain what was discovered through analysis of the data.	Includes reporting and interpretation of narrative and/or numerical data with little apparent concern for accuracy and objectively. Analytical tools are inappropriate to the methodology. Provides, at best, tenuous links between study outcomes, hypotheses (if stated), and the original	Includes reporting and interpretation of narrative and/ or numerical data accurately, objectively, and concisely. Analytical tools are mostly appropriate to the methodology. Does not highlight links between study outcomes, hypotheses (if stated), and the original research question; however,	Includes reporting and interpretation of narrative and/ or numerical data accurately, objectively, and concisely using analytical tools appropriate to the methodology. Highlights explicit links between study outcomes, hypotheses (if stated), and the original research question.
	0-13.9 points / F	14-15.9 points / C	16-17.9 points / B	18-20 points / A

Discussion, Reflection, Implications, Recommendatio ns, Impact Presentation, and Action Plan 4-6 pages 20 points	Section is so brief, incomplete, or off- topic that accurate assessment is impossible. Does not meaningfully discuss the implications of the study or describe a plan for future application or action.	Addresses practical implications of study findings including how they will be shared with others. Does not consistently support assertions or interpretations using sound arguments consistent with study findings. Does not describe recommendations for future research or how results will be applied in practice.	Addresses theoretical/practical implications of study findings including how they will be shared with others. Supports assertions and interpretations using sound arguments consistent with study findings. Does not describe recommendations for future research or how results will be applied.	Includes 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 and interpretations using sound arguments consistent with study findings. Describes recommendations for future research and how results will
	0-6.9 points / F	7-7.9 points / C	8-8.9 points / B	9-10 points / A
References, Appendices, Writing Styles, Mechanics, and General Notes 10 points	Paper is so brief, incomplete, or off- topic that accurate assessment is impossible.	Paper falls short of accepted standards for master's level composition. Drafting errors and error patterns are widespread. Voice, verb tense, and writing style vary from section to section. Technical terms are used 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 or cohesion. Paper does not adhere to formatting specifications provided in course text and materials. Citations and references page do not follow APA style.	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 and reference page mostly follow APA style.	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 and cohesion. Paper adheres to formatting specifications provided in course text and materials. Citations and reference page follow APA style.
		Total points x 5 = to	tal for assignment	

### **Professional Dispositions**

### Professional Dispositions

See https://cehd.gmu.edu/students/polices-procedures/

### **Core Values Commitment**

The College of Education and Human Development is committed to collaboration, ethical leadership, innovation, research-based practice, and social justice. Students are expected to adhere to these principles: <u>http://cehd.gmu.edu/values/</u>..

### **GMU Policies and Resources for Students**

### Policies

- Students must adhere to the guidelines of the Mason Honor Code (see <u>https://catalog.gmu.edu/policies/honor-code-system/</u>).
- Students must follow the university policy for Responsible Use of Computing (see <a href="https://universitypolicy.gmu.edu/policies/responsible-use-of-computing/">https://universitypolicy.gmu.edu/policies/responsible-use-of-computing/</a>).
- Students are responsible for the content of university communications sent to their Mason email account and are required to
  activate their account and check it regularly. All communication from the university, college, school, and program will be sent to
  students solely through their Mason email account.
- Students with disabilities who seek accommodations in a course must be registered with George Mason University Disability Services. Approved accommodations will begin at the time the written letter from Disability Services is received by the instructor (see <a href="https://ds.gmu.edu/">https://ds.gmu.edu/</a>).
- Students must silence all sound emitting devices during class unless otherwise authorized by the instructor.

Campus Resources

- Support for submission of assignments to VIA should be directed to <u>viahelp@gmu.edu</u> or <u>https://cehd.gmu.edu/aero/assessments</u>. Questions or concerns regarding use of Blackboard should be directed to <u>https://its.gmu.edu/knowledge-base/blackboard-instructional-technology-support-for-students/</u>.
- For information on student support resources on campus, see <a href="https://ctfe.gmu.edu/teaching/student-support-resources-on-campus">https://ctfe.gmu.edu/teaching/student-support-resources-on-campus</a>

## Notice of mandatory reporting of sexual assault, interpersonal violence, and stalking:

As a faculty member, I am designated as a "Responsible Employee," and must report all disclosures of sexual assault, interpersonal violence, and stalking to Mason's Title IX Coordinator per University Policy 1202. If you wish to speak with someone confidentially, please contact one of Mason's confidential resources, such as Student Support and Advocacy Center (SSAC) at 703-380-1434 or Counseling and Psychological Services (CAPS) at 703-993-2380. You may also seek assistance from Mason's Title IX Coordinator by calling 703-993-8730, or emailing titleix@gmu.edu.

## For additional information on the College of Education and Human Development, please visit our website <u>https://cehd.gmu.edu/</u>students/.

#### Human Subjects Research Review Process

Any research or teacher research that will be publicly disseminated must have prior approval of the GMU Human Subjects Review Board (HSRB). Teacher research that is used solely for the purpose of studying pedagogical aspects may be conducted without additional permission but cannot be disseminated. <u>SOP 1.3.5 Classroom-projects-1.pdf (gmu.edu)</u>

### **Expectations and Protocols**

### Below are class protocols which govern our time together, whether during in person or online instruction.

**Evaluation:** Grades will be based on the completion and quality of course assignments. Copyright law is to be respected in all assignments. All assignments are due at the beginning of classes.

Inclusivity It is important that you recognize that students enter our classroom with different experiences and backgrounds. Therefore, I expect your participation to be respectful and inclusive of those around you.

Written Assignments: Written assignments are to be submitted on Blackboard by the due date, as indicated in the course schedule, at the start of class. Blackboard time stamps all submitted work.

- Written assignment rubrics indicate "format and writing are of professional quality". This refers to the assignment being an overall piece of quality work that is: grammatically correct with no errors; well composed and articulated; typed with 12-point Times New Roman, 11-point Calibri, or 11-point Arial font; double-spaced with one-inch margins; contains appropriate diction and usage such as "students" instead of "kids"; appropriate usage of homonyms (i.e., there/their/they're); proper writing mechanics and organation; and is PROOFREAD. Work that is not proofread, or that has extensive grammatical errors, will not be graded and you will be advised to revise the assignment.
- Please title each assignment with your name, the name of the assignment, and the due date of the assignment (e.g., Lori Smith LiteratureReview 2.1.21).
- All work should be your own and original. Any idea taken from another source (the internet, classroom teacher, or a curriculum guide) must be noted and cited. Incorporating an idea or using another's material and not indicating the source is PLAGIARISM. GMU and I support strong academic integrity. Please note that: "Plagiarism encompasses the following:
  - 1) Presenting as one's own the words, the work, or the opinions of someone elsewithout proper acknowledgment.
  - Borrowing the sequence of ideas, the arrangement of material, or the pattern of thought of someone else without proper acknowledgment." (from Mason Honor Code online at <a href="https://catalog.gmu.edu/policies/honor-code-system/">https://catalog.gmu.edu/policies/honor-code-system/</a>)
  - Paraphrasing involves taking someone else's ideas and putting them in your own words. When you paraphrase, you need to cite the source using APA format.
  - 4) When material is copied word for word from a source, it is a direct quotation. You mustuse quotation marks (or block indent the text) and cite the source.
  - 5) Electronic tools (e.g., SafeAssign) may be used to detect plagiarism if necessary.
  - 6) Plagiarism and other forms of academic misconduct are treated seriously and may result in disciplinary actions.
- Crossword puzzles, word finds, fill in the blank, or KWL Charts **will not** be accepted in any assignment. None of these assignments broaden students' knowledge. We will review the reasons for this during a class session.
- The word "fun" may not be used in any assignment; instead, use "engaging", "exciting", or some other similar term. Remember: your purpose as a classroom teacher is to teach and that teaching can be done in an engaging, exciting way; your purpose is not to create fun.
- Assignments will not be accepted after the due date. Any assignment may be resubmitted for an improved grade with
  a written request and granted permission. All re-written assignments MUST be submitted by \_\_\_\_\_\_ without
  exception.

**Protocol Use of Technology: internet, mobile devices, and social media:** While in class your attention should be focused on class related activities and discussion. The legitimate educational purpose of our class is to help prepare you for your professional career. This includes demonstrating courtesy and respect for your peers and myself by practicing and modeling the effective use of technology. Your attention in class is important for your learning. Your participation grade will be reduced accordingly for failing to follow these guidelines:

- Laptop Computers, Netbooks, Handheld Tablets Use
  - You may bring your laptop or other electronic device to class; there will be class sessions that will require your electronic device and an internet connection.
  - Engaging in personal emails, instant messaging, texting, social media, games, and web surfing are not appropriate during class time.
  - Unless you are using your device for notetaking, your laptops or other device should be off or in sleep mode until we are ready to use them.
  - Demonstrate ethical and responsible behavior during class and on the GMU network.
  - When in class, spend time only on the tasks associated with this course and the instructor's directions.
  - In general, use your laptops and other devices in class as you would expect your students to use theirs.
  - Online synchronous classes: Students must maintain webcam "on" status

- Log-in Frequency
  - You must actively check the course Blackboard site and your GMU email for communications on a regular basis, as these are the official methods of communication for this course.
- Technical Competence
  - You are expected to demonstrate competence in the use of all course technology. Students who are struggling with technical components of the course are expected to seek assistance from the instructor and/or College or University technical services.
- Technical Issues
  - You should anticipate some technical difficulties during the semester and should, therefore budget your time accordingly. Late work will not be accepted based on individual technical issues.
- Netiquette
  - The course environment is a collaborative space. Experience shows that even an innocent remark typed in the online environment can be misconstrued. Students must always re-read their responses carefully before posting them, so as others do not consider them as personal offenses. Be positive in your approach with others and diplomatic in selecting your words. Remember that you are not competing with classmates but sharing information and learning from others. All faculty are similarly expected to be respectful in all communications. Use professional and ethical judgment. DO NOT post pictures of children during your clinical observations on any social media platform.
- The following software plug-ins for PCs and Macs, respectively, are available for freedownload: Adobe Acrobat Reader: <u>https://get.adobe.com/reader/;</u> Windows Media Player: <u>https://support.microsoft.com/en-us/help/14209/get-windows-media-player;</u> Apple Quick Time Player: <u>www.apple.com/quicktime/download/</u>

Workload: Please be aware that this course is not self-paced. You are expected to meet *specific* deadlines and *due dates* listed in the Class Schedule section of this syllabus. It is your responsibility to keep track of the weekly course schedule of topics, readings, activities, and assignments due. All assignments must be posted to the courses' Blackboard site.

Instructor Support: You may schedule a one-on-one meeting to discuss course requirements, content, or other course-related issues. I can meet with you on campus or via telephone or web conference. Please email me or speak to me before/after class time to schedule a one-on-one session.

## Class schedule

Note: Faculty reserves the right add, alter, or omit any assignment or schedule as necessary during the semester with notification to students

## All assignments are due at the start of the class session unless otherwise indicated.

Class Date	Class Topic and Activities	Reading/Assignment Due						
	Summer Session							
Session 1 Monday May 23 In person 7:20-9:00	Introduction to course Research Concept Map Getting to know you Syllabus Overview Word Wall Creation Action Research Project introduced	READ:         In Mertler - Ch. 1: Introduction to Action Research         WATCH VIDEO:         Conversation with Dr. Craig Mertler about Action Research – YouTube https://www.youtube.com/watch?v=UChUJTAUiWU         WRITTEN RESPONSE #1: Write a 200-word response to the Video and Reading. Questions to guide your response: What are your thoughts about action research? How can action research assist you in the classroom setting? What concerns do you have about action research? Upload to Blackboard in assignments.						

Session 2 Wednesday May25 In person 7:20-9:00	Mindfulness presentation by Katie Clare (Associate Director for Resilience Programs Center for the Advancement of Well-Being, University Life Mental Health First Aid Facilitator Well-Being Learning Community Coordinator) Defining Action Research Examining the Action Research Process Identifying a Topic Developing a Research Question	READ:         In Mertler - Ch. 2: Overview of the Action Research Process         WATCH VIDEO:         Video Resources   Online Resources (sagepub.com)         https://edge.sagepub.com/mertler6e1/student-resources/chapter-1/video-resources         READ:         2 exemplar action research papers written by your peers. Exemplar papers located in Blackboard ⇒Course Content⇒Exemplar Action Research Papers         WRITTEN RESPONSE #2: Write a 200-word reaction to the project examples. Questions to address in your reaction: What were the research questions of each study? What do you think about the process of each study? Upload to Blackboard in assignments.         BRING TO CLASS: (if applicable): The grade level and content area of your classroom this fall.
Session 3 Friday May 27 Asynchronou S 7:20-9:00	Creating an Action Research Topic of Study Developing an Action Research Question Contemplating an Intervention Creating a Template for the Action Research Paper	<ul> <li>READ:</li> <li>Stribling, 2017 – Article on Blackboard ⇒Course Content⇒Additional readings</li> <li>In Mertler - Ch. 3: Planning for Action Research &amp; Reviewing Related Literature</li> <li>In Mertler - Ch. 4: Developing a Research Plan</li> <li>WRITTEN RESPONSE #3: Write a 200-word response to the Video and Reading. Questions to guide your response: What are 2 takeaways from Chapter 3? What are 2 takeaways from chapter 4? How does Stribling's article connect to the Mertler readings? Upload to Blackboard in assignments.</li> </ul>
		May 29 Memorial Day niversity closed No class
Session 4 Wednesday June 1 In person 7:20-9:00	Action Research Topic Creation Constructive Peer Groups Assigned Honing of the Action research Question The Process of Researching a Topic Literature Review Explored	ASSIGNMENT: Create the template for your action research report – create the word document with running head, page numbers, title page, all section headings. Upload to Blackboard in assignments. Details regarding template are in the PowerPoint from May 27 <sup>th</sup> .
Session 5 Friday June 3 Asynchronou S 7:20-9:00	Literature Review Explained Writing the Literature Review Writing the Action Research Paper Getting Organized	COMPLETE: CITI course – see Human Subjects Training - Office of Research Integrity and Assurance (https://oria.gmu.edu/topics/human-subjects/training/) Specific instructions located in PowerPoint for June 3 <sup>rd</sup> . DRAFT: Setting DRAFT section. Add to previously created template. Upload to Blackboard in assignments. Setting DRAFT section due to Constructive Peer group. Feedback returned to peer. Upload to Blackboard in assignments as a second attempt.
Session 6 Monday June 6 Synchronous 7:20-9:00	Defining the Setting Thinking about the 1 <sup>st</sup> paragraph Meet with Constructive Peer Group in a zoom room during class time TBD.	DRAFT: Introduction DRAFT section. Add to previously created template. Upload to Blackboard in assignments. Introduction DRAFT section due to Constructive Peer group. Feedback returned to peer. Upload to Blackboard in assignments as a second attempt. DUE SUNDAY JUNE 12 <sup>th</sup> .

Session 7 Wednesday June 8 In person 7:20-9:00	Library Presentation by Anne Melville, Fenwick Education Librarian	<ul> <li>BRING TO LIBRARY:</li> <li>Choosing Your Action Research Project Topic Worksheet</li> <li>Laptop</li> </ul>
Session 8 Friday June 10 Asynchronou S 7:20-9:00	Reading and Critiquing Sources	ASYNCHRONOUS ASSIGNMENT #1: See June10th's asynchronous PowerPoint for details. Upload to Blackboard in assignments.
Session 9 Monday June 13 Synchronous 7:20-9:00	Individual conferences during class from 7:20-10 via zoom. Sign-up link on June 10 <sup>th</sup> PowerPoint	WRITTEN RESPONSE #4: Write 5 questions you have about the research process. Upload to Blackboard in assignments.
Session 10 Wednesday June 15 In person 7:20-9:00	Qualitative Research Methods Explored Quantitative Research Methods Explored Mixed Methods Explored	ASSIGNMENT: 5 Research Article Critiques completed. Upload to Blackboard in assignments.
Session 11 Friday June 17 Asynchronou s 7:20-9:00	Literature Review Work	<b>ASYNCHRONOUS ASSIGNMENT #2:</b> See June17th's asynchronous PowerPoint for details. Upload to Blackboard in assignments.
	U	June 20 Juneteenth niversity closed No class
Session 12 Wednesday June 22 In Person 7:20-9:00	Final Questions Review of Methodology Looking ahead Meet with Constructive Peer Group during class time.	<b>DRAFT:</b> References DRAFT section. Add to previously created template. Upload to Blackboard in assignments. References DRAFT section due to Constructive Peer group. Feedback returned to peer. Upload to Blackboard in assignments as a second attempt.
Session 13 Friday June 24 Asynchronou S 7:20-9:00	Completing the Literature Review	DRAFT: Literature Review DRAFT section. Add to previously created template. Upload to Blackboard in assignments. Literature Review DRAFT section due to Constructive Peer group. Feedback returned to peer. Upload to Blackboard in assignments as a second attempt. Due SUNDAY, JUNE 26 <sup>th</sup> at 11PM
		Fall session
Session 1 Tuesday September 13 In person 7:20-10:00	Finalizing Research Methodology Writing the results section	DRAFT:         Methodology DRAFT section. Add to previously created template. Upload to Blackboard in assignments.         Methodology DRAFT section due to Constructive Peer group. Feedback returned to peer. Upload to Blackboard in assignments as a second attempt.
	OCTOBER - F	ELD WORK: Data collection

Session 2 Tuesday October 25 Synchronous 7:20-10:00	Data Analysis: Quantitative and Qualitative Learning How to Code Data Creating Themes	<b>DRAFT Due NOV 6th:</b> Results DRAFT section. Add to previously created template. Upload to Blackboard in assignments. Results DRAFT section due to Constructive Peer group. Feedback returned to peer. Upload to Blackboard in assignments as a second attempt.
	NOVEMBER –	FIELD WORK: Data Analysis
Session 3 Tuesday November 8 Asynchronou s 7:20-10:00	Writing the Discussion Section Action planning & Discussion	Update Introduction section. Add to previously created template. Upload to Blackboard in assignments.
Session 4 November 15 Tuesday Synchronous 7:20-10:00	Presentation expectations discussed Individual conferences during class from 7:20-10 Meet with Constructive Peer Group in a zoom room during class time.	<b>DRAFT:</b> Discussion DRAFT section. Add to previously created template. Upload to Blackboard in assignments. Discussion DRAFT section due to Constructive Peer group. Feedback returned to peer. Upload to Blackboard in assignments as a second attempt.
Session 5 Tuesday November 29 or Wednesday November 30 In person 7:20-10:00	Presentations Course wrap-up Course Evaluations BRING LAPTOP	Action Research Project Presentations Final project due: Upload to Blackboard in assignments.
Reading Day Monday May 9	Reading day	
Final Exam Monday May 16	Final exam 7:30-10:15	

## SEED 675 Research Project Details

This document is a compilation of information from the various work of Dr. Kristien Zenkov, Dr. Melissa Hauber, and Dr. Lynda Herrera. George Mason University, May 2022

Your project must focus on student engagement, efficacy, and achievement in/with your subject matter.

## **Sections of the Research Project**

- 1. Title page
- 2. Abstract (125-150 words)
- 3. Introduction (3-4 pages)
  - a. Setting and demographics of school division, community, and school
  - b. Rationale: the reason for or purpose of your project
  - c. Area of focus you are addressing
  - d. Research question(s)
  - e. Hypothesis (optional)
- 4. Literature Review (4-6 pages)
  - a. Synthesizing 10+ sources minimum of 5 peer reviewed research-based journal articles.
  - b. Summary of relevant research related to the study's main topic
  - c. Synthesis and analysis of research
  - d. Paucity of research explored
  - e. Connection to research question(s)
- 5. Methodology (4-6 pages)
  - a. Participant/Setting description and selection criteria
  - b. Context of the research
  - c. Research question(s) framed in relationship to methodology
  - d. Strategies/design implemented
  - e. Materials used (referred to appendix)
  - f. Detail scope and sequence of implementation
  - g. Data sources and types (examples in table)
  - h. Triangulation explained
  - i. Explain validity and reliability of data collection
  - j. Consider ethical considerations
- 6. Results/Findings (8-12 pages)
  - a. Introduction/overview of findings
  - b. Data analysis method explained
  - c. Description of findings and patterns (organize by theme/student/data source, etc.)
  - d. Connections to research question(s)
  - e. Interpretations: what findings mean
- 7. Discussion (4-6 pages)
  - a. Relation of your findings to the literature/theory on the topic
  - b. Reflection on teacher-teacher learning and what findings mean
  - c. Implications for teaching and future research
  - d. Limitations
  - e. Recommendations for future research
  - f. Impact presentation
  - g. Action Plan for teaching and learning
- 8. References
- 9. Appendices

Each section is explained in detailed below

This section is one page.

Your paper will begin with a title page, numbered page 1.

The title should summarize your research and should be limited to 12 words.

All items on the title page must be centered.

The running head is included on the title page and all pages in the paper.

The title page must include the following, in this order:

- **Research Project Title**
- Your Name
- George Mason University
- Appropriate Course Number: Research in Secondary Education
- Dr. Lvnda Herrera
- Submission Date

### Abstract

This section is one page, 125-150 words

The abstract begins on page number 2.

Center the word 'Abstract' and continue typing on the very next double-spaced line.

Type the abstract as a single paragraph in block format (i.e., no paragraph indentations)

Type all numbers, except those that begin a sentence, as digits.

The abstract is a succinct description of the problem which the research addresses and the method used in the study. An abstract writing strategy: take 1-2 sentences from each section of your final project (introduction, literature review, methodology, findings, and discussion) to craft the abstract.

Questions to help quide you:

- What was your study about? 0
- What was your major finding?
- What was your purpose and the context, method, key findings, and significance of your research? 0

	Below expectations	Approaches expectations	Meets expectations	Exceeds expectations
Title and Abstract	Abstract is so brief, incomplete, or off-topic that accurate assessment is impossible.	Includes only general statements about the study. Information on methods and procedures to be followed is sketchy or missing. Outside of required length.	Includes an identifiable summary that addresses the purpose of the study. Mentions methods and procedures to be followed but not sharply focused.	Project includes a concise summary that reports factually on the purpose of the study and the methods and procedures to be followed.

### Introduction

The introduction begins on page 3.

This section should be approximately 3-4 pages in length.

Center the word 'Introduction' and continue typing on the very next double-spaced line.

It is recommended that you have subheading within this section to assist with organization.

The purpose is to set the stage for research and provide an overview of the research project. This section of the research report tells the reader what you did in the research. (The purpose of this study was.....).

A helpful tactic is to begin this section with a story that highlights the classroom issue/problem/ topic of the study you are attempting to address. This will pull the reader into your paper.

Then briefly describe the setting, including the community, school division, school, classroom, and students. You may use graphics, charts, etc....to visually share demographic information.

Demographic information in your introduction should focus on your school, while demographic information in your methods section should focus specifically on the students you worked with in your study.

### Important: Be sure to add a footnote regarding pseudonyms at the first mention of a teacher name or school: ""All names in this paper are pseudonyms".

Explain **your role** in the classroom and any other relevant information. Use the term "teacher-researcher". You will have subheadings of: Rationale, Area of Focus, and Research Questions In the Rationale Section:

- you should focus on the purpose of your study
- what problem/issue you are addressing
- why these concerns are important to you
- what your research might help you learn
- Be sure that your research questions steer you toward a descriptive response.

In the Area of Focus section:

you should describe the context of your research (what are you examining in this paper?)

- define any of your terms (known as operationally defining your terms) such as cooperative learning groups, MLL, primary sources, or concept mapping.
- Address why this research is important to you, your teaching, and the larger teaching community

## In the Research Question section:

- you should state your research question(s) and any sub-questions
- explain any hypothesis you might have (what do you think will be the results of this study?)
- explain how you formulated your hypothesis.
- Briefly explain HOW you will examine this research question
- Briefly explain what intervention you will use

A good introduction answers the following questions:

- What is the problem you are addressing?
- How did you discover this problem?
- What is the purpose of the study?
- How is your research problem of interest to the professional community?
  - What are your methods of data collection?
  - What is the intervention you used?
  - Why is this topic important?

	Below expectations	Approaches expectations	Meets expectations	Exceeds expectations
Introduction, Rationale, Area of Focus, and Research Questions	Section is so brief, incomplete, or off-topic that accurate assessment is impossible. Does not clearly explain the context or state the research purpose or questions.	Project includes minimal information on the context framework for the study. Does not offer a rationale for the study or does so only superficially. States the research question and purpose of the study but may be unclear or lack specificity.	Project includes 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.	Project includes 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.

## Literature Review

This section should be approximately 4-6 pages in length.

Do not purposely start a new page for this section.

Center the words 'Literature Review' and continue typing on the very next double-spaced line.

It is recommended that you have subheading within this section to assist with organization.

You must have a minimum of **10 references** in which you cite and synthesize in this section. References can be from refereed journals, books (generally not textbooks), curriculum resources, and scholarly compilations. **At least 5 of your references must be from peer-reviewed journals from the past ten years.** 

Teacher research appeals to a broad range of research resources, including reports of teachers' experiences.

You need to be familiar with previous investigations of your topic and discuss how these investigations informed your design to properly address your research question. The review of the literature should consist of a summary of relevant research related to the study's main topic.

The literature review forms a context in which the reader can view and understand your study. You establish what the current literature in the field of education is in relationship to your problem or intervention. You summarize and analyze the literature in this section. The **emphasis is on synthesis and analysis** (Bloom, 1956, 1984).

This is the concrete foundation for your research – without this section your research would exist alone, in a black hole.

After you have read your sources: ask yourself...what are the 3 things I learned from these sources that inform my thoughts about my question or my methodology? These three "things" become your subheadings. Open your literature review with a "road map": tell us the themes and topics you will address in the body of your review.

Use **direct quotes very sparingly**. Craft your literature review as a story of the study of your topic, as a dialogue between you and these other scholars.

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.

Transitions should connect one theme with the next.

A good literature review answers the following questions:

- What are the 2 (or 3) main themes, or categories, that emerged after you read the articles?
- What is missing in the literature ("There is a paucity of research ...")?
- In what ways is your research design based on other's research?

The literature review tends to be the section that students encounter the most struggle. To better assist you in the process the following pages offer helpful advice.

	The purpos	How to Write a Literature Review By Dr. Zenkov e of a literature review is to offer an overview of significant literat	ure published on a topic.			
rationale for enga	ging in primary research. A review is	a required part of grant and research proposals and often a cha	may be a self-contained unit an end in itself or a preface to and pter in theses and dissertations. Generally, the purpose of a review prior research studies, reviews of literature, and theoretical articles.			
Elements of a literature review	<ul> <li>Division of works under rev Explanation of how each w</li> </ul>	, issue or theory under consideration, along with the objectives of the literature review view into categories (e.g., those in support of a particular position, those against, and those offering alternative theses entirely) vork is similar to and how it varies from the others leces are best considered in their argument, are most convincing of their opinions, and make the greatest contribution to the				
	<ul> <li>Point out overall trends in v scholarship; or a single pro</li> <li>Establish the writer's reaso</li> </ul>	al topic, issue, or area of concern, thus providing an appropriate what has been published about the topic; or conflicts in theory, m blem or new perspective of immediate interest. n (point of view) for reviewing the literature; explain the criteria to sequence); and, when necessary, state why certain literature is i	ethodology, evidence, and conclusions; or gaps in research and be used in analyzing and comparing literature and the			
	<ul> <li>versus quantitative approa</li> <li>Summarize individual studi that space (length) denotes</li> <li>Provide the reader with str</li> </ul>	ches, conclusions of authors, specific purpose or objective, chron es or articles with as much or as little detail as each merits accord	rding to its comparative importance in the literature, remembering			
	<ul> <li>Evaluate the current "state theory and findings, and ar</li> </ul>	of the art <sup>®</sup> for the body of knowledge reviewed, pointing out majo eas or issues pertinent to future study. e insight into the relationship between the central topic of the lite				
Steps to prepare a literature review	<ol> <li>Define your topic: you mus</li> <li>Search for materials: use s</li> <li>Evaluate what you have fo understanding of the topic</li> </ol>	literature review may be divided into four broad stages: our topic: you must define your topic and components of your topic or materials: use search tools (such as the library catalogue, databases, bibliographies) to find materials about your topic what you have found: read and evaluate what you have found in order to determine which material makes a significant contribution to the ding of the topic and interpretation: provide a discussion of the findings and conclusions of the pertinent literature.				
Evaluating material	<ul> <li>Provenance: What are the statistics, recent scientific f</li> <li>Objectivity: Is the author's point?</li> <li>Persuasiveness: Which of</li> </ul>	iece, consideration should be given to: What are the author's credentials? Are the author's arguments supported by evidence (e.g. primary historical material, case studies, narratives, ent scientific findings)? I the author's perspective even-handed or prejudicial? Is contrary data considered or is certain pertinent information ignored to prove the author's ess: Which of the author's theses are most/least convincing?				
Uses and purpose of a literature review	A literature review may constitute In either case, its purpose is to: Place each work in the cor Describe the relationship o Identify new ways to interp Resolve conflicts amongst Identify areas of prior scho Point the way forward for fi	Value: Are the author's arouments and conclusions convincino? Does the work ultimately contribute in any significant way to an understanding of the subject? literature review may constitute an essential chapter of a thesis or dissertation, or may be a self-contained review of writings on a subject (such as a journal article).				
organizational stra the theme or issue	tegy. In other words, a chronological e. However, sometimes you may nee	Ways to Organize Your Literature Review your literature review, the sections you need to include in the pa review would have subsections for each vital time period; a ther to add additional sections that are necessary for your study, bu e only what is necessary for the reader to locate your study within	natic review would have subtopics based upon factors that relate to it do not fit in the organizational strategy of the body. What other			
If your review follo could write about they were publish followed if a cle previous researc	Chronologically was the chronological method, you the materials according to when ted. This approach should only be ear path of research building on h can be identified and that these a clear chronological order of development	By Publication Order your sources by publication chronology, then, only if the order demonstrates a more important trend. For instance, you could order a review of literature on environmental studies of brown fields if the progression revealed, for example, a change in the soil collection practices of the researchers who wrote and/or conducted the studies.	Thematic ("conceptual categories") Thematic reviews of literature are organized around a topic or issue, rather than the progression of time. However, progression of time may still be an important factor in a thematic review. A review organized in this manner would shift between time periods within each section according to the point made.			
titilized by the researcher. that share or support your hypothesis, and those that disagree with it. This gives a chance to show the strengths of the supporting research, discuss any validity/methodology issues with past research that disagrees with your findings, and explain how the past research leads up to and supports yours.			Broad to Specific Another approach is to start your literature review by discussing the general type of issue you're reviewing, then narrow down to increasingly specific issues in the literature until you reach the articles that are most specifically similar to your research question, thesis statement, hypothesis, or proposal. This can be a good way to introduce a lot of background and related facets of your topic when there is not much directly on your topic but you are tying together many related, broader articles.			
Major Models or Major Theories         Prominent Authors         Contrasting Schools of Thought           When there are multiple models or prominent theories, it is a good idea to outline the theories or models that are applied the most in your releated.         If a certain researcher started a field, and there are several famous people who developed it more, a good approach can theoretical framework that each pieled the most in your releated by the theoretical framework that each prefers, to get a good overview of the prominent approaches to your concept.         If a certain researcher started a field, and there are several famous people who developed it more, a good approach can they are following. With this organization it can help to look at the citations your articles list in them, to see if there is one author that appears over and over.         If you find a dominant argument comes up in your rese researchers taking two sides and taking about the with wrong, you may want to group your literature review schools of thought and contrast the differences in approaches and ideas.						

Elements of an Effective Literature Review					
You might <b>open your review with a quote</b> from one of the articles to which you are appealing	<ul> <li>You can focus in your review on the methods the researchers have used, especially those that relate to your research</li> </ul>				
You write brief summaries of each of the articles you reviewed,	You should focus in your review on how these articles addressed or answered YOUR research questions				
You include transition sentences to explain how each successive article relates to the previous and to the theme you are describing—use words like "echo" and "similarly"	<ul> <li>Try to write using "considerate" text—try to use "regular" English that is not overly scientific</li> <li>You are working to provide an overview of the research literature that relates to the topics of your own research</li> </ul>				
across all or some of the articles that relate to your research	<ul> <li>You should NOT use article/book titles in the body of your literature review</li> <li>You should use quotes very sparingly—paraphrase what authors are saying as much as</li> </ul>				
	possible				
From your collection of at least ten sources, you can include approximately half research articles and half other types of literature (books, curricula, etc.)	<ul> <li>Try to use sentence starters like "Recent research finds that" and "Other important studies reveal" and "Based on the results of this study" and "According to the research I reviewed"</li> </ul>				
Writing a review is a personal and artistic endeavor and the review	<ul> <li>In general, you want to discuss findings from ACROSS articles/reports/books, rather than just so much detail about one article, unless it really is a seminal piece</li> </ul>				
You want your review to be "tight"-that is, very few extra words	You are <b>NOT writing an annotated bibliography</b> —you want to look broadly across				
You want your review to be well organized and flow logically—but you	publications rather than too deeply at individual ones				
	Be sure to offer the reader a transition from your introduction into your literature review				
	<ul> <li>and then provide summary/transition into your method section</li> <li>Be sure to provide an introductory paragraph for lit review, telling the reader how you</li> </ul>				
You want to open your review with an introduction to the themes on	organized your literature review (e.g., by theme, chronologically, etc.)				
which you are focusing—or a description of the way you are organizing	Write in the past tense				
	Be sure to follow APA formatting				
<b>Tell us the STORY of the research</b> —and engage in a discussion of the research with these other scholars, as the scholar you are	<ul> <li>Please read the example projects provided you—for example, for information about how to cite articles</li> </ul>				
	You might open your review with a quote from one of the articles to which you are appealing You write brief summaries of each of the articles you reviewed, focusing on a summary of the research findings You include transition sentences to explain how each successive article relates to the previous and to the theme you are describing—use words like "echo" and "similarly" Your reviews are theme-driven—you focus on themes you've identified across all or some of the articles that relate to your research Your resources should generally be less than ten years old From your collection of at least ten sources, you can include approximately half research articles and half other types of literature (books, curricula, etc.) Writing a review is a personal and artistic endeavor and the review should be well-written and interesting to read You want your review to be "tight"—that is, very few extra words You want your review to be well organized and flow logically—but you determine the logic of this flow You are focusing You want to open your review with an introduction to the themes on which you are focusing—or a description of the way you are organizing your review—and a conclusion that also transitions into your research Tell us the STORY of the research—and engage in a discussion of the				

- You should only use the last names of researchers
- Look at reference lists of really good articles to find additional resources

	Below expectations	Approaches expectations	Meets expectations	Exceeds expectations
Literature Review	Literature review is so brief, incomplete, or off-topic that accurate assessment is impossible.	Includes fewer than 8 peer- reviewed empirical research sources. Does not make a clear case for the project focus. Summarizes cited works sequentially, rather than synthesizing and organizing them thematically. Relies heavily on direct quotes.	Includes at least 8 peer- reviewed empirical research sources. Makes a reasonable case for the project focus. Organizes the literature by identifiable themes, although organization within themes may be unclear. Attempts to synthesize referenced sources. Uses few direct quotes.	Includes at least 10 peer-reviewed empirical research sources. Identifies gaps in the literature to which the study responds and makes a clear case for the project focus. 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.

### Methodology

This section is 4-6 pages

Do not purposely start a new page for this section.

Center the word 'Methodology' and continue typing on the very next double-spaced line.

It is recommended that you have subheading within this section to assist with organization.

This section includes a narrative explaining the research design and the procedure (method) by which the study is implemented. **Describe how you implemented your research**, including the type of research approach you used (i.e., qualitative case study).

Be sure to place sample material in an appendix (student samples, interview questions, journaling prompts, surveys, lesson plans, etc...)

Each step should be **described in detail**, so the reader knows exactly how the research was conducted...think very detailed lesson plan here. A reader should be able to replicate your research, based on what you explain in this section. **BE EXACT – PROVIDE DETAILS!** 

**Begin** by describing your immediate setting - your classroom. You may incorporate a chart to highlight the demographics of the class. Demographic information in your methods section should focus specifically on the students you worked with in your study.

Describe the physical room. How is the room organized? How does the room highlight the content taught? Describe the lighting, space, location in the school.

Describe the teacher-research – this is YOU (your length of tenure in education and at the school, your philosophy of education, your teaching style, etc...). Include your role in the classroom as the researcher.

Describe your mentor, if applicable.

Highlight 3-4 students in the classroom as examples of students you want to improve academically through your intervention.

- Why did you choose these individuals?
- Who are they in terms of gender, ethnicity, age, grade level, language/culture, and educational achievement?
- How many years in the school?
- How many years in the district, family life, academic ability, standardized data collected, peer relations, personality, physical description, etc...? (OR describe your class using the same parameters?)

Explain why you chose to do what you did in this section. Describe the challenge the students/class faces. **This is your problem you are trying to improve**.

Repeat your question(s) to remind the reader what you are studying.

Be sure to describe what type of data you collected; for example, did you do a needs assessment (e.g., 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 indepth interviews with students or teachers?

You must have 3 methods of data collection to ensure triangulation. Describe, in detail, your three methods of data collection (student check-ins, surveys, assessments, teacher interviews, reflective journal, tally sheets, observations, student records, written responses, etc...). You can include a triangulation matrix to assist with this section.

Describe your intervention. Your intervention is what you are doing to fix the problem.

- How and when will your intervention occur?
- How many sessions and/or total time did it take to implement the intervention?
- How will it be completed?

Describe the length of the intervention. You must describe how you are logistically incorporating the intervention into your classroom setting. If you are trying a different instructional method, describe it thoroughly and explain how the students will receive the instruction. If you are implementing a new program, describe what the program does and step by step how you will implement the program.

What influenced the selection of your methodology and design?

## BE SURE TO INCLUDE lesson plans for implementation in your appendix

Describe your data collection. You must be specific:

- What are the three ways you will collect your data? (teacher interviews, data tally sheets, observations, student check-ins, tests scores, student records, etc...).
- Where do vou conduct the teacher interviews?
- Where and how do you take the notes?
- What are the questions you will ask (be sure to place these in an appendix)?
- How will you observe the students? What do the tally sheets look like (these should be in an appendix)?
- How will these be teacher interviews conducted?
- How will you examine student records?
- What kind of records? Which tests?
- Are there other documents you will use?
- How will you triangulate the data?
- What measures you took to assure the validity of your study?

### Be sure to include a table and timeline of your methods:

- What you collected and when?
- How do the data relate to your research question?

Be sure to include a table detailing how your research questions align with your data sources, with a focus on triangulation (i.e., at least three data sources for each research question).

Describe how you will analyze your results.

Describe how you planned to make sense of (analyze) your data considering your research question(s). What are you looking for in your results?

Explain how your data collection ensures validity and reliability of your data?

Lastly, address ethical issues raised by study and explains how they were addressed

## DETIALS, DETAILS, AND MORE DETAILS!!!!

Below expectations         Approaches expectations         Meets expectat	ions Exceeds expectations
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Methods	Methods section is so brief, incomplete, or off-topic that accurate assessment is impossible. Does not clearly describe how the study was	Includes explanation of the study design, procedures followed, sampling methods, and analytical tools (including any statistical tests), given the stated ouroose of the	Includes explanation of the study design, procedures followed, sampling methods, and analytical tools (including any statistical tests), given the	Includes explanation and justification of the appropriateness of the study design, procedures followed, sampling methods, data collection and analytical tools (including any
	conducted, what data sources were used, or how data were analyzed.	study; explanations, however, are not fully developed. Mentions ethical issues raised by the study but addresses them only superficially.	by the study and how they were addressed.	statistical tests), given the stated purpose of the study. Discusses ethical issues raised by study and explains how they were addressed.

### **Results/Findings**

This section is 8-12 pages

Do not purposely start a new page for this section.

Center the word 'Results' and continue typing on the very next double-spaced line.

It is recommended that you have subheading within this section to assist with organization.

In this section, indicate what you discovered or found because of your data gathering.

Focus on results that are related to your research topic and answer your research questions or shed light on your research hypotheses.

This section focuses on your results of your project in which you take all the data you collected and analyze it. You will provide rich descriptions of **how** you reviewed your data, **the themes** that became apparent in your reviews, and your ultimate findings.

Introduce your findings before you begin to describe them, and clearly link them to your research question(s).

### First:

Give a general description of your findings.

Explain how you analyzed your data.

- What was the process you went through to analyze your data?
- Nothing is too mundane here! You may literally write, "I sat at my kitchen table and..."
- How did you make sense of your data?

Briefly repeat the 3 data collection methods you used to create triangulation.

Details are important in this section. You want to explain, step by step, how you analyzed your data

### Second:

What are the 2-3 main THEMES that emerged from the data?

After deciding on these themes (creating a subheading for each) you will give specific examples of the theme as demonstrated in your data collection.

For example:

Theme 1: Plants like water Daisy: My data .... Hosta: Tomatoes: Theme 2: The sun is not always a benefit Daisy: Hosta: My data demonstrated that Hosta are not sun tolerant. This was supported by... Tomatoes: Theme 3: Chipmunks can erode all efforts Daisy: My data .... Hosta: Tomatoes: Chipmunks ate the tomato plants. My evidence of this...I concluded that...based on..

Organize this section in a way that makes sense for your data/findings (e.g., by student, by theme, by data source, etc.). Use illustrative examples from your data to summarize and SHOW us your findings. YES...you can add charts/graphs/tables Feel free to use mini case studies to illustrate your findings, considering your research outcomes through the lens of the experiences of a few students.

Be sure to report on student achievement, efficacy, and engagement.

Note that you are **primarily reporting on data patterns in this section**; you will make sense of these results in your discussion section.

You do not want to discuss implications for your research here – that is done in the next section.

		Below expectations	Approaches expectations	Meets expectations	Exceeds expectations
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### Discussion

This section is 4-6 pages.

Do not purposely start a new page for this section.

Center the word 'Discussion' and continue typing on the very next double-spaced line.

It is recommended that you have subheading within this section to assist with organization: Reflection, Implications, Limitations, Recommendations, Impact Presentation, and Action Plan

This section includes what conclusions you draw from the study, the implications for current research findings, the limitations of the study, the recommendations for further research in the study area, how you will present this data in an impact presentation, and an action plan for your classroom.

**Reflection:** You should focus on what you think your results mean. 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.

This section should explain any inconsistencies between your research findings and literature review. You should also include what you THINK! What you thought of the process, what you learned from the research, and what you learned from the process.

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, and in what ways, your findings corroborated your expectations.

How did your data answer your research questions?

**Implications:** Future research possibilities should be identified, and generalizability of conclusions discussed. Be careful: Do not use the word 'prove'...your research is too limited to imply that it can prove your hypothesis or be applied to a larger population.

Limitations: Describe the limitations of your study. Reflect on weaknesses to the research.

- Was your intervention flawed?
- Did you do something as a researcher that impacted the study negatively?
- Were there extenuating circumstances?

**Recommendations:** 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. What does it mean to you as a professional and a person.

**Impact presentation:** Describe how you might share the findings of your paper. Here highlight that you will presenting a poster presentation to our class.

Action Plan: How you might incorporate the teacher research process into your future professional life? How might you change *your* teaching practice based on your findings?

Answer questions such as:

- a) What did I learn from this research?
- b) What can further research do to further my research?
- c) What do my results mean?
- d) What inconsistencies exist between my research and the literature that already exists?
- e) What generalizability can I conclude?
- f) What are the limitations of this study?
- g) What do I think about my research? About my student?
- h) Based on the results and themes that emerged from the study, what changes will you make in your teaching?
- i) How will you share these findings with others?
- j) What are the implications for future research?
- k) How does your study add to or relate to the literature on the topic?

	Below expectations	Approaches expectations	Meets expectations	Exceeds expectations
Discussion, Reflection, Implications, Recommenda tions, and Action Plan	Section is so brief, incomplete, or off-topic that accurate assessment is impossible. Does not meaningfully discuss the implications of the study or describe a plan for future application or action.	Addresses practical implications of study findings including how they will be shared with others. Does not consistently support assertions or interpretations using sound arguments consistent with study findings. Does not describe recommendations for future research or how results will be applied in practice.	Addresses theoretical/practical implications of study findings including how they will be shared with others. Supports assertions and interpretations using sound arguments consistent with study findings. Does not describe recommendations for future research or how results will be applied.	Includes 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 and interpretations using sound arguments consistent with study findings. Describes recommendations for future research and how results will be applied in practice.

## References

Start on a new page.

Center the word 'References' at the top.

Double-space all reference entries.

The reference list is an alphabetical list (by author's last name) of all the sources cited in the text.

Indent the first line of each entry.

See examples or the Publication Manual of the American Psychological Association for specific formats. Include a complete list of references **in APA format**.

You must include any reference you read but did not use within the paper.

### Appendices

Start on a new page.

Center the word 'Appendix' at the top of each new Appendix.

Be sure to add a letter to each new Appendix (Appendix A, Appendix B, etc...).

Each appendix should begin on a new page.

Ensure each Appendix in this section is referenced in the body of the paper.

This section is where all relevant materials, including any questionnaires, inventories, assessments, graphs, charts, interview questions, sample student work, behavioral chart, etc. are appended.

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.

Please refer to the examples or the Publication Manual of the American Psychological Association for further information on this section.

This should be where the things that do not fit in the text go.

If something will interrupt the flow of the paper, it should be placed here.

	Below expectations	Approaches expectations	Meets expectations	Exceeds expectations
References, Appendices, Writing Styles, Mechanics, and General Notes	Paper is so brief, incomplete, or off-topic that accurate assessment is impossible.	Paper falls short of accepted standards for master's level composition. Drafting errors and error patterns are widespread. Voice, verb tense, and writing style vary from section to section. Technical terms are used 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 or cohesion. Paper does not adhere to formatting specifications provided in course text and materials. Citations and references page do not follow APA style.	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 and reference page mostly follow APA style.	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 and cohesion. Paper adheres to formatting specifications provided in course text and materials. Citations and reference page follow APA style.

## Checklist

The appearance of your paper and the arrangement of its parts are important to the final presentation. Consider the following questions for each section to help ensure that you met the above criteria.

## Writing Styles, Mechanics, and General Notes

- Did you follow the APA style for the report for a running head, page numbering, references, citations, and the appendix?
- Is the original manuscript typed or printed on 8.5 x 11-inch white paper?
- Is the entire manuscript double-spaced?
- Is the manuscript neatly prepared and clean?
- Have you used a 12 font for type style?
- Are the margins at least 1 inch?
- Is the title page, abstract, references, tables, etc. on separate pages?
- Are the pages ordered in the stated sequence?
- Are all pages numbered in sequence, starting with the title page?
- Does the running head appear on each page?
- Is each paragraph longer than a single sentence but not longer than one manuscript page?
- Are ALL names pseudonyms? Pseudonyms are only to be used (for the district, the school, the teachers, the participant(s), and any other name). The very first time you use a name (whether in the abstract, introduction or method section) place a footnote. In the footnote write "All names in this paper are pseudonyms". You do not need to write such a disclaimer for any later mentioned names.
- Did you spell out acronyms when you note them the first time. e.g., English Language Learners (ELL)?
- Does the report include a title page with required information?
- Is the report coherent, concise, and well-structured with a clear purpose?
- Is the report grammatically correct with proper usage of language?
- Does the report have your distinctive focus and voice? Have you used professional language (i.e., no jargon) but written in an accessible style and presentation?
- In addition, follow these general guidelines:
  - Your study report is not a master's thesis nor traditional class research paper but rather focuses on putting theory into practice in your real-world, local context.
  - The entire project should be described in a 25-30-page paper (not including appendices).
  - Write in the past tense as much as it makes sense to do so.
  - Be sure to make a personal and professional connection to your topic and project.
  - Feel free to revise your questions based on your data to make these questions more focused.
  - Grading Scale for Research Project: Please note that B- is not a passing grade.
  - This report strictly adheres to GMU's integrity policy.

### Abstract:

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

### Introduction:

- Did you start with a personal story?
- 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.
- What is its background and significance?
- Have you describe the setting? (e.g., school division, school, classroom)
- What is (are) your research question(s)?
- Do you have a hypothesis? If so, what is it and how did you formulate it?
- Have you explained the outgrowth of your study?
- Have you offered perspectives that shaped this question for you?
- Have you clearly and concisely explained why this research is important? Have you addressed the broader educational and social significance?
- Have you clearly and concisely stated the research problem?
- Have you clearly and concisely stated your main research question and any sub-questions?
- Have you provided a transition into your literature review?

## Literature Review:

- Did you conduct an ongoing literature review which informed your research?
- Is the review relevant and connected to your study?
- Is the review adequate, coherent, and analytical?
- Does the review include references from a variety of sources?
- Is the review integrated into a conceptual framework with a mapping of the theories, literature, and phenomena that help to inform your study?
- o Do you make connections between the studies, their methods, and their findings and your own study?
- Did you provide a transition into your methodology section?

### Methodology:

- Have you described your research context, including your classroom, students and you?
- Have you included demographic information of participants?
- o Did you include your reflection of the problem (e.g., behaviors observations, possible causes)?
- Have you explained the reasons for your pedagogies based on your observations of your classroom and the literature reviewed?
- Have you described in detail what data you collected and how and when you collected it, including data generated from your pedagogies and strategies?
- Are your data from 3 sources?
- Did you include a description of the pedagogical strategies you enacted?
- Did you explain how you analyzed your data?
- Have you included and explained the role of your peers in your data interpretations and validation?
- o Did you explore using visuals and technologies for analyzing and displaying your findings in a coherent manner?
- Did you detail your research method and timeline?
- Did you provide a transition into your findings section?
- Did you address the ethical considerations of your study?

### **Results:**

- o Did you link findings to your research question(s) and what you learned/discovered through your research?
- Are the findings thoroughly and adequately presented?
- Is there convincing evidence to support your themes?
- Is there connection and coherence among the separate themes?
- Did you explain your findings to peers and colleagues to gain their perspectives on your interpretations?
- Did you provide a transition into your discussion section?

### **Discussion:**

- Have you adequately explained the implications of your study for your students' learning and your professional development?
- Have you adequately explained the implications of your study for your teaching and others' teaching?
- Have you adequately explained the implications of your study for the education field, teacher education, and education policy?
- Did you address the studies limitations?
- How will you share your results with others?
- Have you explained your action plan?

### **References and Appendices:**

- Are references current and from different sources?
- Are all references cited in the research report included in the references?