

GEORGE MASON UNIVERSITY
COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT
GRADUATE SCHOOL OF EDUCATION

Course

EDCI 559-A03: *Research and Assessment in Elementary Education*
Section K4, 3 credits
Summer 2019
Tuesdays 4:30-8:30; Garfield Elementary

Instructor

Audra Parker
Office Hours: By appointment
Thompson 1805
(813)-465-9206
aparke19@gmu.edu

Course Meetings

Our class will meet using a variety of structures; when we gather as a group, we will meet face to face. We will gather as a whole class for several sessions (4:30-8:00 pm), and then we will meet individually using a conference format for the remaining sessions. While you will have less class face-to-face time, you will spend much of the course engaged in individual and small group conferences, independently writing, and providing peer feedbacking—all of which will help you be successful in this course.

Prerequisites

Admission into Elementary Education program; Capstone course for degree must be taken last in programmatic sequence.

University Catalog Course Description

Provides teacher candidates an understanding of research paradigms utilizing systematic evidence to improve practice and further skills in assessment of learning outcomes. Emphasizes linking research and practice, making instructional decisions based on systematically collected data.

Course Overview

This course is designed to help teacher candidates understand various research paradigms utilizing research literature and systematic evidence to improve teacher practice and to further their skills at assessment of learning outcomes. Course emphasizes linking research and practice and making instructional decisions based on systematically collected data.

Nature of Course Delivery

The primary purpose of this course is for you to learn how to conduct action, teacher, or practitioner research and apply it in your classroom in order to improve your teaching and your students' learning. This course requires a combination of face-to-face, online, and individual conferencing. This course is student-centered and will be conducted using a project-based approach. Your research questions and methodology will be the focus of the course and will drive readings, classroom discussions, peer review activities, reflections, and the action, teacher, or practitioner research project that you complete.

Please be aware that this course is **not** self-paced. Students are expected to meet *specific deadlines* and *due dates* listed in the **Class Schedule** section of this syllabus. It is the student's responsibility to keep track of the weekly course schedule of topics, readings, activities and assignments due. The course will be delivered through a variety of online, face-to-face, and individualized instructional approaches.

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.

Students may schedule a one-on-one meeting to discuss course requirements, content, or other course-related issues. Students should email the instructor to schedule a one-on-one session, including their preferred meeting method and suggested dates/times.

The purpose of the draft research project sections and the peer review sessions will be to support completion of our action, teacher, or practitioner research projects and provide opportunities for us to learn about and analyze methods and techniques of action, teacher, or practitioner research.

You will have the opportunity to construct knowledge and critically reflect on the research process as you complete the action, teacher, or practitioner research proposal and report, and then prepare your "Action/Teacher/Practitioner Research Impact Presentation" for graduation. You will be expected to post your own assignments and respond to peers' feedback in accordance with the scheduled provided. During class meetings there will be large group, small group, and individual activities.

Online classes are considered regular instructional time and the assignments given are the equivalent of a full in-class session. The online classes involve research, use of professional web sites, peer review, email with the instructor and classmates, readings, writing reflections, and other assignments.

GMU's Blackboard course framework will be used regularly throughout the course, and you will also be required to use Google Drive to upload and share drafts of your research project with me and a small group of your peers. Your GMU email address is required for communication with the course instructor and must be active by the first week of class. Please inform me of any accessibility problems the first day of class.

In general, we will engage in four activities across the course: 1) Mini-lectures, activities, and discussions related to research methods led by the instructor and course participants and supported by course text and selected readings 2) Discussions of the week's readings led by the instructor and course participants 3) Class and peer review group meetings in which students concentrate on selected readings, provide feedback and support for each other's writing and

research processes, and share how they have presented their research efforts to authentic audiences 4) Individual, small group, and whole group meetings to discuss research efforts.

LEARNING OUTCOMES

A. Students will be able to:

1. Articulate the role of systematic evidence in the improvement of teaching and learning.
2. Use educational research literature as a basis for reflecting on and improving their teaching practice.
3. Make explicit linkages between research and assessment practice.
4. Distinguish between the purposes and methods of theoretical, applied, and action research as well as quantitative and qualitative research.
5. Explain the fundamentals of validity and reliability, and articulate the potential threats to validity within various research paradigms.
6. Critique the quality of research studies within various paradigms.
7. Describe the purpose and cycle of action research, specifically in relationship to assessment of their learners.
8. Design appropriate and authentic assessments and analyze student data.
9. Design an action research study based on research and student assessments.
10. Use technology to assist in locating, using, conducting research, and analyzing data.

B. Outcomes and Standards (see below)

Learning Outcomes	NBPTS Propositions	NETS Standards	InTASC Standards	ACEI Standards
1	1, 3	V	2, 3, 4, 5, 6, 9, 10	3.1, 3.2, 3.3, 3.4, 4.0, 5.1
2	1, 3, 4	IV & V	9, 10	5.1
3	1, 3, 4	IV & V	6, 9	4.0, 5.1
4	4	V	6,	4.0
5	4	V	6	4.0
6	4	V	6, 9, 10	4.0, 5.1
7	1, 3, 4	IV & V	6, 7, 9	3.1, 4.0, 5.1
8	1, 3	IV & V	6	4.0
9	4	IV & V	6, 7, 9	3.1, 4.0, 5.1
10	4	V	4	2.1, 2.6

PROFESSIONAL STANDARDS

Upon completion of this course, students will have met the following professional standards:

❖ ACEI Standards

Standard 3.1: Integrating and applying knowledge for instruction—Candidates plan and implement instruction based on knowledge of students, learning theory, connections across the curriculum, curricular goals, and community

Standard 3.2: Adaptation to diverse students—Candidates understand how elementary students differ in their development and approaches to learning, and create instructional opportunities that are adapted to diverse students

Standard 3.3: Development of critical thinking and problem solving—Candidates understand and use a variety of teaching strategies that encourage elementary students' development of critical thinking and problem solving

Standard 3.4: Active engagement in learning—Candidates use their knowledge and understanding of individual and group motivation and behavior among students at the K-6 level to foster active engagement in learning, self-motivation, and positive social interaction and to create supportive learning environments

Standard 4.0: Assessment for instruction—Candidates know, understand, and use formal and informal assessment strategies to plan, evaluate and strengthen instruction that will promote continuous intellectual, social, emotional, and physical development of each elementary student.

Standard 5.1 Professional growth, reflection, and evaluation—Candidates are aware of and reflect on their practice in light of research on teaching, professional ethics, and resources available for professional learning; they continually evaluate the effects of their professional decisions and actions on students, families and other professionals in the learning community and actively seek out opportunities to grow professionally.

❖ INTASC

Standard #2: Learning Differences. The teacher uses understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments that enable each learner to meet high standards.

Standard #3: Learning Environments. The teacher works with others to create environments that support individual and collaborative learning, and that encourage positive social interaction, active engagement in learning, and self motivation.

Standard #4: Content Knowledge. The teacher understands the central concepts, tools of inquiry, and structures of the discipline(s) he or she teaches and creates learning experiences that make the discipline accessible and meaningful for learners to assure mastery of the content.

Standard #5: Application of Content. The teacher understands how to connect concepts and use differing perspectives to engage learners in critical thinking, creativity, and collaborative

problem solving related to authentic local and global issues.

Standard #6: Assessment. The teacher understands and uses multiple methods of assessment to engage learners in their own growth, to monitor learner progress, and to guide the teacher's and learner's decision making.

Standard #7: Planning for Instruction. The teacher plans instruction that supports every student in meeting rigorous learning goals by drawing upon knowledge of content areas, curriculum, cross-disciplinary skills, and pedagogy, as well as knowledge of learners and the community context.

Standard #8: Instructional Strategies. The teacher understands and uses a variety of instructional strategies to encourage learners to develop deep understanding of content areas and their connections, and to build skills to apply knowledge in meaningful ways.

Standard #9: Professional Learning and Ethical Practice. The teacher engages in ongoing professional learning and uses evidence to continually evaluate his/her practice, particularly the effects of his/her choices and actions on others (learners, families, other professionals, and the community), and adapts practice to meet the needs of each learner.

Standard #10: Leadership and Collaboration. The teacher seeks appropriate leadership roles and opportunities to take responsibility for student learning, to collaborate with learners, families, colleagues, other school professionals, and community members to ensure learner growth, and to advance the profession.

❖ **National Board for Professional Teaching Standards**

Proposition 1: Teachers are committed to students and learning

Proposition 3: Teachers are responsible for managing and monitoring student learning

Proposition 4: Teachers think systematically about their practice and learn from their experience.

❖ **National Technology Standards**

Standard IV: Teachers apply technology to facilitate a variety of effective assessment and evaluation strategies.

Standard V: Teachers use technology to enhance their productivity and professional practice.

❖ **The [Virginia State Technology Standards for Instructional Personnel](#)**

1. Instructional personnel shall be able to demonstrate effective use of a computer system and utilize computer software.
2. Instructional personnel shall be able to apply knowledge of terms associated with educational computing and technology.
3. Instructional personnel shall be able to apply computer productivity tools for professional use
4. Instructional personnel shall be able to use electronic technologies to access and exchange information.

REQUIRED TEXT

Lattimer, H. & Caillier, S. (2015). *Surviving and thriving with teacher action research: Reflections and advice from the field*. New York: Peter Lang.

Recommended Texts American Psychological Association (2009). *Publication manual* (6th ed.). Washington, DC: American Psychological Association. Note: APA guidelines are available online at <http://owl.english.purdue.edu/owl/resource/560/01/>

COURSE PERFORMANCE EVALUATIONS:

Students are expected to submit all assignments on time in the manner outlined by the instructor.

TK20 Performance-Based Assessment Submission Requirement

Every student registered for any Elementary Education course with a required performance-based assessment is required to submit these assessments, Action Research Report to Tk20 through Blackboard (regardless of whether the student is taking the course as an elective, a onetime course or as part of an undergraduate minor). Evaluation of the performance-based assessment by the course instructor will also be completed in Tk20 through Blackboard.

ASSIGNMENTS

Assignment	Points	Due Dates
1. Attendance and Participation [Outcomes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]	10	
2. Component Drafts: [Outcomes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10] a. Part One: Rationale and Research Question(s) b. Part Two: Annotated Bibliography 1 c. Part Three: Context and Instructional Change d. Part Four: Data Collection and Student Assessment e. Part Five: Data Analysis f. Part Six: Findings and Implications	5 points EACH (30 total)	Pts 1, 2, 3 2/11 Pt 4 3/4 Pts 5, 6 5/20
3. Peer Feedback and Reflective Editing [Outcomes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10] a. Part One: Rationale and Research Question(s) b. Part Two: Annotated Bibliography c. Part Three: Context and Instructional Change d. Part Four: Data Collection and Student Assessment e. Part Five: Data Analysis f. Part Six: Findings and Implications	5 points EACH (30 total)	Pts 1, 2, 3 Peer: 2/15 Rev: 2/19 Pt 4 Peer: 3/8 Rev: 3/12 Pts 5, 6 Peer:5/25 Rev: 5/29

3. Final Action Research Report (PBA) [Outcomes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]	30	June 4th
4. Action Research Poster and Presentation [Outcomes 1, 2, 3, 7]	15	June 4th
Total	115	

1. Attendance and Participation Expectations (10 points)

This course operates with the assumption that knowledge is socially constructed and the most meaningful learning opportunities are those where you have the opportunity to offer and explore diverse perspectives with peers. To do this **it is expected that you attend all scheduled classes** outlined within the syllabus. Absence from class to observe a religious holiday, to serve jury duty, or to participate in required military service, and medical emergencies are exceptions to the above policy. If you anticipate being absent for any of these reasons, please make arrangements at least 48 hours in advance. In addition, **you are expected to be on time to class** each week unless advance notice has been provided to the instructor.

You are expected to contribute to both class and online discussions and activities as well as genuinely listen to peers as they do the same. In addition, **you are expected to be prepared for each class**, which means having completed all assigned readings and tasks for that class.

When you are using cell phones, laptops, etc., *please be respectful of your peers and your instructor and do not engage in activities that are unrelated to class*. Such disruptions show a lack of professionalism and may affect your participation grade.

You must actively check the Google Classroom site and their GMU email for communications from the instructor, class discussions, and/or access to course materials at least *twice* a week.

All written papers are expected to be double-spaced, with 1" margins, and in 12-point font (Times New Roman, Calibri, or Arial). APA format is expected. If you do not have a 6th Edition APA manual, the OWL at Purdue is an excellent resource.

<http://owl.english.purdue.edu/owl/resource/560/01/>

Please Note: The GMU Writing Center offers online support via email. They will provide feedback on your writing within one hour. Graduate and professional writing can be difficult; I encourage you to take advantage of this service. http://writingcenter.gmu.edu/?page_id=177

Drafts should be submitted electronically via Google Drive and are due as indicated on the course syllabus schedule. Please use google docs to submit these drafts—not Microsoft Word.

It is expected that all class assignments will be submitted on time to the correct location. *If there is an emergency, contact me as soon as possible.*

Note: I reserve the right to add, alter, or omit any assignment as necessary during the course of the semester. You will always receive advanced notice of any modifications.

2. Component Drafts (1-6) (30 points)

These sections will be submitted throughout the semester for formative feedback. These drafts **MUST** be submitted by their syllabus due dates. They are worth 5 points each. Late assignments will receive 0 points.

Part One: Rationale and Research Question(s)

Describe the origin of your inquiry? From what has your research question emerged? What question(s) are you asking?

Part Two: Annotated Bibliography

Review the literature relevant to your question. What does it tell you about your area of inquiry? What tensions exist in the studies? How do they shape your question?

Part Three: Context and Instructional Change

Describe your school, community, classroom and student population; and Describe the instructional change.

Part Four: Data Collection and Student Assessments

Describe how you collected data to answer your research question(s). This includes formative and summative assessments designed to gather that data. How might you consider collecting data on your students' achievement, engagement, and efficacy with your teaching and subject area? What sort of timeline might you follow to complete your project? How might you involve your students in the identification of a teaching/research challenge, in the identification of research questions, in data collection methods, in data analysis methods, and/or in sharing findings of your project? Who might your 5-7 potential case study students be? What will be your specific teaching interventions? What will be your primary data collection methods? How might you triangulate the data collection in your study? How might you insure that your study is valid and your data collection techniques are reliable? How might you ensure that you have met any ethical challenges associated with conducting research on your teaching and followed your school's ethics policy regarding the collection of data?

Part Five: Data Analysis

Describe how you analyzed your data.

Part Six: Findings and Implications

What do the patterns and outliers have you noticed in your data? What does your data tell you about the implications of your project— for you as a teacher, for your colleagues, for teacher education, and for educational policy? What should happen in your classroom, based on the results of your project so far? With whom might you share your project methods and results? What sense have your students made of your project methods and results?

3. Peer Feedback and Reflective Editing (30 points)

You will work with peers across the semester as you draft and craft your research project. A peer reviewer is a colleague whom you trust personally and professionally, as well as a kind but courageous about asking provocative questions about your work and your perspective. In our course, a significant amount of time will be spent considering each other's work, and I will offer you tools to use to support the creation and revision of each section of your research reports. These activities will require that you follow the outlined procedures closely. Let's keep in mind that peer reviewers intend not just to know their own work but to understand the contexts, circumstances, and settings of their peers' efforts. We will establish nonnegotiables for our work as a class and for each of our peer interactions. You will be expected to offer substantive Google Drive feedback on all of your peer review group members' draft research project components—five points per each section.

You will submit revised versions of each of the six sections. Due dates of these revised sections are listed in the schedule below. Assessment of your revisions will be based on your documented responses to the feedback your peers and Dr. Parker provide. Completing these revised elements will scaffold you toward completion of your final project. Not submitting peer feedback or revision notes by the due dates indicated in the syllabus will result in 0 points per section.

4. Action Research FINAL Report (30 points) —TK20 Requirement —DUE June 4th

This is the major assignment for this class and is the Performance Based Assessment (PBA) for the course. The final written report will include the sections above and a final implications section for a total of six sections.

Points will also be earned for quality of writing and use of APA style in FINAL REPORT. See attached rubric.

- Part One: Rationale and Research Question(s)
- Part Two: Annotated Bibliography
- Part Three: Context and Instructional Change
- Part Four: Data Collection and Student Assessments
- Part Five: Data Analysis
- Part Six: Findings and Implications

Final Report must be submitted via TK20 by June 4th, 11:59pm

5. Action Research Poster Presentation (15 points)

You will present your action research. This presentation will be based on your written final report (see above). You will participate with other sections of EDCI 559 in a poster session. You will prepare a conference-style poster and one-page handout for distribution to your audience. Date and location of presentation TBA.

Grading Scale

94-100 = A	90-93 = A-	88-89 = B+	81-87 = B	70-80 = C	Below 70 = F
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PROFESSIONAL DISPOSITIONS

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

Students are expected to exhibit professional behaviors and dispositions at all times. (See Elementary Education Program Handbook).

COURSE SCHEDULE

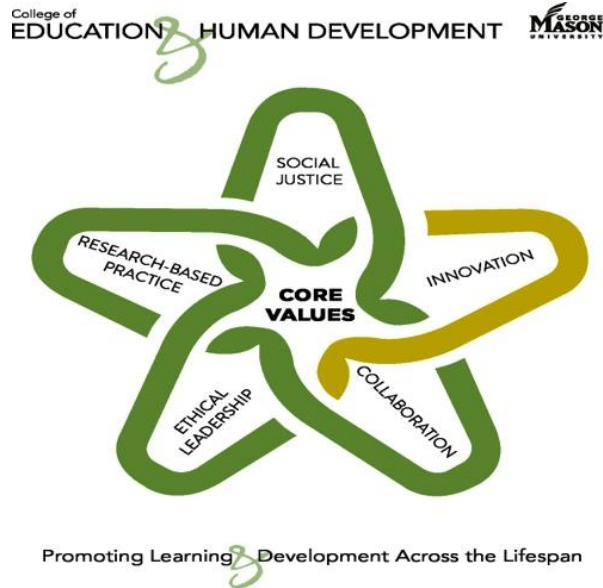
Note: Faculty reserves the right to alter the schedule as necessary, with notification to students.

Date	Readings	Topics and Activities	Assignment Due
Tuesday 1/22 Mason Room TBD 4:30-8:00	Action Research Exemplars (2) with guiding questions Lattimer & Callier, Chs. 1-7	<u>F2F SESSION 1:</u> <ul style="list-style-type: none"> - Introductions, Course Structure, Syllabus - Norm Setting for Class Meetings and Feedback - Understanding Google Classroom - Why Action Research - Overview of Components of Teacher Research - Considering Questions - Role of Journaling/Pre-assessment and Baseline Data - Rationale, Research Questions, Annotated Bibs, and Context and Change 	
Week of 1/28 Online	Bb Readings: Sample Analysis Sections	<u>F2F SESSION 2: INDIVIDUALLY SCHEDULED:</u> <ul style="list-style-type: none"> - Individual conferences with mentor teacher & teacher candidate - Goals: <ul style="list-style-type: none"> • Identification of a pedagogical concern/classroom concern • Role of mentor in supporting/participating • Brainstorming preassessment sources and data sources • Overarching timeline - <u>ONLINE:</u> <ul style="list-style-type: none"> • Reviewing and Analyzing Samples of Rationale, Research Questions, 	

		<p>Annotated Bibs, and Context and Change</p> <ul style="list-style-type: none"> • Begin Drafting 	
<p>Week of 2/4</p> <p>Online</p>	<p>Bb Readings: Annotated Bibs and Lit Reviews</p> <p>Lattimer & Callier, Chs. 8-10</p>	<p>Goals:</p> <ul style="list-style-type: none"> - Readings and Responses - Drafting and Providing Feedback • First Draft Due: 2/11 (Sections 1, 2, and 3) 	
<p>Week of 2/11</p> <p>Online</p>		<p>Online:</p> <ul style="list-style-type: none"> - Individual/Small Group Conferences • Refine questions • Peer Feedback Due by 2/15 • Revisions Due by 2/19 (Sections 1, 2, and 3) 	
<p>Tuesday, 2/19</p> <p>4:30-8:00</p> <p>Garfield Elementary</p>	<p>Bb Readings: Data Collection Techniques</p> <p>Lattimer & Callier, Chs. 11-13</p>	<p><u>F2F SESSION 3:</u></p> <ul style="list-style-type: none"> - Reviewing Progress - Data Collection Techniques - Reviewing Samples of Data Collection - Developing a Data Collection Plan 	
<p>Week of 2/25</p> <p>Online</p>		<p>Online:</p> <ul style="list-style-type: none"> - Individual Conferences • Refine Data Collection Techniques 	
<p>Week of 3/4</p> <p>Online</p>	<p>Bb Readings: Trusting the Process</p> <p>Lattimer & Callier, Chs. 14, 16</p>	<p>Online:</p> <ul style="list-style-type: none"> - Readings and Responses - Drafting and Providing Feedback • First Draft of Data Collection Due 3/4 (Section 4) • Feedback Due by 3/8 • Revisions Due by 3/12 (Section 4) 	
3/12		No Class – IT, data collection	
3/19		No Class – IT, data collection	
3/26		<u>F2F SESSION 4:</u>	

		<ul style="list-style-type: none"> - Reviewing Progress - Reviewing Samples of Data Collection - BRING DATA SAMPLES COLLECTED TO DATE TO CLASS 	
4/2		No Class – IT, data collection	
4/9		No Class – FCPS Spring Break	
4/16		No Class – IT, data collection	
Tuesday, 4/23 4:30-8:00 Garfield Elementary	<p>Bb Readings: Data Analysis</p> <p>Lattimer & Callier, Chs. 19-24</p>	<p><u>F2F SESSION 5:</u></p> <ul style="list-style-type: none"> - Reviewing Progress - Data Analysis Techniques - Reviewing Samples of Data Analysis, Findings and Implications - Sharing Your Work 	
4/30	Bb Readings: Sample Analysis Sections	<p>Online:</p> <ul style="list-style-type: none"> - Reviewing and Analyzing Sample Analysis, Findings, and Implications - Begin Drafting 	
Week of May 6th		<p>Online:</p> <ul style="list-style-type: none"> - Individual Conferences <ul style="list-style-type: none"> • Data Analysis, Findings, and Implications Support 	
Week of May 13th		<p>Online:</p> <ul style="list-style-type: none"> • Individual/Small Group Conferences • Drafting and Providing Feedback 	
Week of May 20th		<p>Online:</p> <ul style="list-style-type: none"> - Individual Conferences <ul style="list-style-type: none"> • First Draft of Data Analysis, Findings and Implications Due 5/20 (Sections 5 & 6) • Feedback Due by 5/25 • Revisions Due by 5/29 (Sections 5 & 6) 	
Week of May 27th	F2F	Preparing presentations and final reports	

Date TBA		FINAL PRESENTATIONS <ul style="list-style-type: none"> - Sharing Symposium (DATE TBD) - Location TBD 	June 4th: Final Report
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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: <http://cehd.gmu.edu/values/>.

GMU POLICIES AND RESOURCES FOR STUDENTS

Policies

- Students must adhere to the guidelines of the Mason Honor Code (see <https://catalog.gmu.edu/policies/honor-code-system/>).
- Students must follow the university policy for Responsible Use of Computing (see <http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/>).
- 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 <https://ds.gmu.edu/>).

- Students must silence all sound emitting devices during class unless otherwise authorized by the instructor.

Campus Resources

- Support for submission of assignments to Tk20 should be directed to tk20help@gmu.edu or <https://cehd.gmu.edu/aero/tk20>. Questions or concerns regarding use of Blackboard should be directed to <http://coursesupport.gmu.edu/>.
- For information on student support resources on campus, see <https://ctfe.gmu.edu/teaching/student-support-resources-on-campus>

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

ADDITIONAL PROGRAM INFORMATION AND REQUIREMENTS

To participate in this course, students will need to satisfy the following technical requirements:

- **Technical Competence:** Students 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:** Students should anticipate some technical difficulties during the semester and should, therefore, budget their 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.
- **High-speed Internet access** with a standard up-to-date browser, either Internet Explorer or Mozilla Firefox is required (note: Opera and Safari are not compatible with Blackboard).
- Students must maintain consistent and reliable access to their GMU email and Blackboard, as these are the official methods of communication for this course.
- The following software plug-ins for PCs and Macs, respectively, are available for free download:
 - Adobe Acrobat Reader: <https://get.adobe.com/reader/>
 - Windows Media Player: <https://windows.microsoft.com/en-us/windows/downloads/windows-media-player/>
 - Apple Quick Time Player: www.apple.com/quicktime/download/

Action Research Rubric

Levels/Criteria	3	2	1
<p>Introduction: Describes the problem. Clear research question stated. Significance of problem is addressed. InTASC 9 ACEI 5.1</p>	<p>The problem is described in details. The description fully leads the reader to the research question. The research question is clear. It is measurable. The significance of the problem is addressed fully. It is clear why this is an important problem to study.</p>	<p>The problem is adequately described. The description partially leads the reader to the research question. The research question is vague. It is measurable. The significance of the problem is adequately addressed, but it is not clear as to why this is important.</p>	<p>The problem is not adequately described. It does not lead the reader to the research question. The research question is unclear. It is not measurable. The significance of the problem is unfocused and rambles. It is not clear why this is an important topic to study.</p>
<p>Annotated Bibliography: Research studies are used. Studies relate to the research question. InTASC 9 ACEI 5.1</p>	<p>At least nine to ten research studies are used to support the literature review. These are from respectable journals. The studies are appropriate for the topic and research questions. Bibliography is in APA style with no errors.</p>	<p>Five to eight research studies are used. At least one of them is from a respectable journal. The studies are somewhat appropriate for the topic and research question. Bibliography follows APA style with no more than two errors.</p>	<p>Less than five research studies are used. The articles are not from respectable journals. The studies are not appropriate for the topic or research question.</p>
<p>Context and Intervention Provided: Setting Described. Population identified. Intervention. InTASC 9 ACEI 5.1</p>	<p>The setting is fully described. It includes, size of school, location, grade level, subject taught, etc. All pertinent information is included. The population is fully described. It includes number of students, gender and ethnic breakdown, grade levels, academic abilities, etc. Information relevant to the research is included.</p>	<p>The setting is adequately described. Most information is included, but not all. The population is adequately described. Most information is included, but not all. Intervention is adequately described, but either the description of the intervention or the implementation is confusing.</p>	<p>Setting is not included or inadequately described. It is not clear where the research will be conducted. Population is not included or inadequately described. It is not clear who will be participating in the research study. There is no intervention or implementation explained or the intervention does not</p>

	<p>Intervention is fully described. It is clear what the intervention is and how it will be implemented.</p> <p>Intervention is realistic.</p>		align with the research question.
<p>Research Design: Design of study matches goals. Formative and Summative Assessments included. Data sources appropriate. InTASC 9 ACEI 5.1</p>	<p>The methodology chosen (quantitative, qualitative, mixed methods) is appropriate for the research question. There is adequate time allowed for data collection. The treatment is reasonable and ethical.</p> <p>There is a mixture of formative and summative assessments included in the design. They are well-described or a copy is included.</p> <p>All data sources are appropriate for the research question. The information collected will help answer the question.</p>	<p>Two of the three stated criteria are adequate.</p> <p>Formative and summative assessments are included in the design. Copies are not included and they are not well described.</p> <p>Most, but not all, of the data sources are appropriate.</p>	<p>None or one of the criteria is adequate. The research is not ethical.</p> <p>Either formative or summative assessments are included, but not both. Copies are not included and they are not well described.</p> <p>The majority of the data sources are not appropriate for the research question. Data collected is not ethical.</p>
<p>Analysis of Data: Appropriate analysis for data collected. InTASC 9 ACEI 5.1</p>	<p>The entire analysis of the data is appropriate. The information gathered addresses the research question.</p>	<p>The majority of the analysis is appropriate. However, it is not clear how other parts were analyzed.</p>	<p>The analysis is inappropriate or not well-defined.</p>
<p>Findings and Implications: Findings are presented clearly. Implications from data proposed. Connects back to the findings.</p>	<p>Findings are presented in a clear format. Key findings are thoroughly discussed. Implications from the data are well-developed and fully discussed. The implications are connected back to the results of the data analysis.</p>	<p>Findings are presented in an appropriate format, although they could be clearer. Key findings are discussed in general terms. Implications from the data are adequately discussed. It is clear the student is able to interpret the findings.</p> <p>However, the</p>	<p>Findings are not presented in a clear format or are absent. Key findings are not adequately discussed. Implications from the data are inadequately discussed. It is not clear the student is able to interpret the findings.</p>

<p><i>InTASC 9 ACEI 5.1</i></p>		<p>implications are not tied back to the results.</p>	<p>The implications are not tied back to the results.</p>
<p>Overall Style: Clear, concise writing. Grammar and punctuation. Multiple levels of headings used to organize ideas. <i>InTASC 9 ACEI 5.1</i></p>	<p>The writing is very clear and concise. The reader can understand what the problem is and how the research will address it. There are no grammar and punctuation errors. There is evidence of multiple levels of headings. These are used appropriately in all instances.</p>	<p>The majority of the writing is clear and concise. There are one to three grammar and punctuation errors. There is evidence of multiple levels of headings. These are used appropriately in the majority of instances.</p>	<p>The majority of the reading is vague and unclear. The reader has difficulty seeing the connections between the various sections. There are four or more grammar and punctuation errors. There is no evidence of multiple levels of headings or these are used inappropriately in the majority of instances.</p>