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

#### Course

ELED 559: Research and Assessment in Elementary Education Section DL2, 3 credits Spring 2023 Mondays 4:30 – 7:10pm

#### Instructor

Dr. Mandy Bean Office phone: Please email Office Hours: By appointment Thompson 1406 <u>abean5@gmu.edu</u>

## Prerequisites

Admission into elementary education graduate 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

This course will be delivered online using both synchronous and asynchronous formats via Blackboard Learning Management system (LMS) housed in the MyMason portal, Zoom, and Google Drive. You will log in to the Blackboard (Bb) course site using your Mason email name (everything before @gmu.edu) and email password. The course site will be available on January 20, 2023. 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.

The primary purpose of this course is for you to learn how to conduct action research and apply it in your classroom in order to improve your teaching and your students' learning. This student-centered, project-based course requires a combination of asynchronous and synchronous learning and individual conferencing. 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 research project that you complete.

Please be aware that this course is not self-paced. 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. 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.

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 purpose of the draft research project sections and the peer review sessions will be to support completion of our action research projects and provide opportunities for us to learn about and analyze methods and techniques of action research. You will be expected to post your own assignments and respond to peers' feedback in accordance with the scheduled provided.

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

# **Technical Requirements**

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

- High-speed Internet access with standard up-to-date browsers. To get a list of Blackboard's supported browsers see:

   <a href="https://help.blackboard.com/Learn/Student/Getting\_Started/Browser\_Support#supported-browsers">https://help.blackboard.com/Learn/Student/Getting\_Started/Browser\_Support#supported-browsers</a>
   To get a list of supported operation systems on different devices see:

   <a href="https://help.blackboard.com/Learn/Student/Getting\_Started/Browser\_Support#tested-devices-and-operating-systems">https://help.blackboard.com/Learn/Student/Getting\_Started/Browser\_Support#tested-devices-and-operating-systems</a>
- Students must maintain consistent and reliable access to their GMU email and Blackboard, as these are the official methods of communication for this course.
- Students will need a headset microphone for use with the Zoom web conferencing tool.
- Students may be asked to create logins and passwords on supplemental websites and/or to download trial software to their computer or tablet as part of course requirements.
- The following software plug-ins for PCs and Macs, respectively, are available for free download:
  - Adobe Acrobat Reader: <u>https://get.adobe.com/reader/</u>
  - Windows Media Player:
    - https://support.microsoft.com/en-us/help/14209/get-windows-media-player

Apple Quick Time Player: <a href="http://www.apple.com/quicktime/download/">www.apple.com/quicktime/download/</a>

# **COURSE EXPECTATIONS**

**COURSE WEEK:** Our class will meet on Mondays as indicated on the Schedule of Classes.

**LOG IN FREQUENCY:** Students must actively check the course Blackboard site and their GMU email for communications from the instructor, class discussions, and/or access to course materials at least 3 times per week. In addition, students must log-in for all scheduled online synchronous meetings.

**PARTICIPATION:** Students are expected to actively engage in all course activities throughout the semester, which includes viewing all course materials, completing course activities and assignments, and participating in course discussions and group interactions.

**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.

**WORKLOAD:** Please be aware that this course is **not** self-paced. <u>Students are expected to meet specific</u> <u>deadlines and due dates listed in the Class Schedule section of this syllabus</u>. It is the student's responsibility to keep track of the weekly course schedule of topics, readings, activities and assignments due.

**INSTRUCTOR SUPPORT**: Students may schedule a one-on-one meeting to discuss course requirements, content or other course-related issues. Those unable to come to a Mason campus can meet with the instructor via telephone or web conference. Students should email the instructor to schedule a one-on-one session, including their preferred meeting method and suggested dates/times.

**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.

**ACCOMMODATIONS:** Learners who require effective accommodations to insure accessibility must be registered with George Mason University Disability Services.

# 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

Learning	InTASC Standards
Outcomes	
1	2, 3, 4, 5, 6, 9, 10
2	9, 10
3	6, 9
4	6,
5	6
6	6, 9, 10
7	6, 7, 9
8	6
9	6, 7, 9
10	4

## **PROFESSIONAL STANDARDS**

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

# ✤ 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.

# **REQUIRED TEXTS**

- Sagor, R. D., & Williams, C. (2017). *The action research guidebook: A process for pursuing equity and excellence in education*. Corwin Press. \*\*\*Will be provided.
- Mills, G. E. (2017). Action research: A guide for the teacher researcher (6<sup>th</sup> ed.). Boston, MA: Pearson. \*\*\*Will be provided.

# **RECOMMENDED TEXT**

American Psychological Association (2019). *Publication manual* (7th ed.). American Psychological Association.

\*Note: APA guidelines are available online at <u>http://owl.english.purdue.edu/owl/resource/560/01/</u>

**WRITTEN WORK:** All assignments must be written in Times New Roman, Calibri, or Arial, 12 point font, double-spaced, and follow APA (7th edition) formatting guidelines (see <a href="http://www.english.purdue.edu/owl/resource/560/01/">http://www.english.purdue.edu/owl/resource/560/01/</a> for more information).

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. <u>http://writingcenter.gmu.edu/?page\_id=177</u>

All assignments and online activities are to be completed by the date listed in the syllabus.

# ASSIGNMENTS

Assign	ment	Points
1) Atte	ndance and Participation	3 points EACH
[0	utcomes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]	synchronous
		session
		(24 total)
2) Com	2) Component Drafts	
[0	[Outcomes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]	
1.	Research Question with paragraph on "why it matters to you" (a mini-rationale)	
2.	Alphabetical list of 10 peer-reviewed articles	
3.	Context of your School and Classroom:	

4.	Annotated Bibliography Chart			
5.	Instructional Change			
6.	Data Collection			
7.	Data Analysis			
8.	Findings			
3) Actio	on Research Poster Presentation [Outcomes 1,	16		
2, 3, 4,	5, 6, 7, 8, 9, 10]			
4) Fina	I Action Research Report (PBA) [Outcomes 1,	20		
-	5, 6, 7, 8, 9, 10]	20		
	This final paper includes all the above sections <i>plus</i> Rationale and Implications.			
Total	•	100		

It is expected that all class assignments will be submitted on time to the correct location; therefore, **late assignments will not receive full credit**. <u>Assignments turned in late will have ½</u> <u>point deducted for each day it is late; this policy will be strictly followed</u>. All assignments must be submitted on the due date stated in the syllabus and should be submitted in the format outlined below.

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.

# **ASSIGNMENTS**

# **1.** Attendance and Participation Expectations (8 sessions, 3 points each = 24 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 24 hours in advance**. <u>In addition, you are expected to be ON</u> **TIME to class unless advance notice has been provided to the instructor.** 

You are expected to contribute to both in class 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. You must actively check Blackboard and their GMU email for communications from the instructor, class discussions, and/or access to course materials at least *twice* a week.

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 (8 drafts, 5 points each = 40 points)

These sections **MUST BE SUBMITTED BY THEIR DUE DATES** throughout the semester for formative feedback. They are worth 5 points each. *Reminder: ½ point will be taken off PER DAY for late submissions.* 

1. Research Question with paragraph on "why it matters to you" (a mini-rationale)

## Due SUNDAY FEBRUARY 5

Write the research question in the correct format (provided in class). Underneath it, write a paragraph with the following questions as a guide:

- describe the origin of your inquiry how did it come to your attention as a research idea?
- why does this matter to your classroom? Your students? Your school? The broader educational community?
- 2. Alphabetical List of 10 peer-reviewed articles in APA format

#### Due SUNDAY FEBRUARY 12

Review academic literature relevant to your question. Use ERIC or other platforms for searching. More information provided in class.

- Use the APA, 7<sup>th</sup> edition, as the guide for formatting, for ALL sections: <u>https://owl.purdue.edu/owl/research and citation/apa style/apa formatting and style guide/apa changes 7th edition.html</u>
- 3. Context of your School and Classroom

## Due SUNDAY FEBRUARY 19

Describe your school, community, classroom and student population. Use the most up-to-date data.

#### 4. Annotated Bibliography Chart (Choose 8 from your 10 articles)

#### Due SUNDAY FEBRUARY 26

Use the provided chart to answer these questions: "What does the article tell you about your area of inquiry? What tensions exist in the studies? How might it inform your own study?"

#### 4. Instructional change

#### Due SUNDAY MARCH 5

Describe the instructional change: what steps am I going to take to address or learn more about the issue in your question?

### 5. Data Collection

Due SUNDAY MARCH 12

Describe *how* you will collect data to answer your research question. This should include includes formative and summative assessments designed to gather that data.

6. Data Analysis

#### Due SUNDAY APRIL 16

Describe how you analyzed your data.

8. Findings

#### Due SUNDAY APRIL 23

What are the findings from the data, both qualitative and quantitative? What do the patterns and outliers have you noticed in your data?

## 3. Action Research Poster Presentation: Symposium Slide (16 points)

## Due MONDAY April 24<sup>th</sup> by 4:30pm (SHARP!)

You will present your action research at a symposium at the end of the course. This presentation will be based on your final analysis. *For the symposium, you will prepare a conference-style digital poster on a google slide.* Part of your points will be participation with your peers during the symposium.

## 4. Final Action Research Report (20 points)

## Due SUNDAY MAY 7

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 component sections, with the ADDITION of two sections: Rationale and Implications. Points will also be earned for quality of writing and use of APA style in FINAL REPORT. See attached rubric.

- <u>Title Page and Running Head (see APA)</u>
- <u>Section 1:</u> Rationale and Research Question
- Section 2: Annotated Bibliography Chart
- Section 3: Context and Instructional Change
- <u>Section 4:</u> Data Collection
- <u>Section 5:</u> Data Analysis
- Section 6: Findings
- <u>Section 7:</u> Implications (see below for details)
- References
- Appendices

Implication Section: 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?

# GRADING

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

## **PROFESSIONAL DISPOSITIONS**

Students are expected to exhibit professional behaviors and dispositions at all times: <u>https://cehd.gmu.edu/students/polices-procedures/</u>. (See also Elementary Education Program Handbook).

## **COURSE SCHEDULE**

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

Date	Readings (all on Blackboard)		Topics and/or Activities		Due dates & Information
Jan 23 Synchronous ZOOM at 5:00 Jan 30 Synchronous ZOOM at 5:00	<ul> <li>Sagor Ch 1: Introduction to Action Research (AR)</li> <li>Sagor Ch 2: Finding a focus (selected pages)</li> <li>Skim Sample AR paper "The Case for Shared Writing"</li> <li>Sagor Ch 3: Refining a focus (selected pages)</li> <li>Mills Ch 4: Review of Related Literature (selected pages)</li> </ul>	• • • •	What is Action Research? Introductions, Course Structure, Syllabus Norm Setting for Class Meetings Finding a focus Research Question construction Using past research	•	Due on Jan 23: Come to class with the Google Slide <b>Completed</b> prior to class https://docs.google.com/presentation/d/1q5UY1_b0_J3Id5uP7Letc3xyIILU92Oly6u5vrSh- w/edit?usp=sharing -What makes my class unique? -What are the strengths of my current classroom? -What are the challenges of my current classroom? Due on Jan 30: Complete your 5 journal entries; bring to class on Jan 30 – do not upload (small group sharing) Due on Bb on Sunday Feb 5: Research Question with paragraph on "why it matters to you" (a mini-
		•	articles/literature to explore our questions Creating your Annotated Bibliography Chart		rationale)
Feb 6 <mark>Self-paced</mark> work week	<b>Review 7<sup>th</sup> APA link</b> (see above)	•	Find peer reviewed articles and prepare list Review 7 <sup>th</sup> edition of APA style	•	Due on Bb on Sunday Feb 12: Alphabetical List (by first author) of 8 peer-reviewed articles in <u>APA format</u>
Feb 13 <mark>Synchronous</mark> ZOOM at 5:00	<b>Bb:</b> Sample AR Section of Context and Instructional Change "Through the lens of a critical friend" (Costa & Kallick, 1993).	•	What is the Context? What is the Instructional Change?	•	Due on Bb on Sunday Feb 19: Context of School and Classroom

Synchronous ZOOM	(BEFORE CLASS) at 4:30pm: Symposium Slide	Presentations with an Online	4:30pm: Symposium Slide
Apr 17 Synchronous ZOOM at 5:00 Apr 24	Mills Ch. 9: Writing Up Action Research (selected pages) Due on Google by April 24 <sup>th</sup>	<ul> <li>Preparing for the final research report</li> <li>Partner work session with your Critical Friend(s)</li> <li>Final</li> </ul>	<ul> <li>Due on Bb on Sunday Apr 23: Findings</li> <li>Due on Google by Monday April 24 @</li> </ul>
Apr 10		No Class – IT, data collection*	
Apr 3		No Class – IT, data collection*	
Mar 27		No Class – IT, data collection*	
Mar 20	Bean as needed	collection* No Class – IT, data collection*	
Mar 13	Schedule meetings with Dr.	organizing and writing No Class – IT, data	• Due on Bb on Sunday Apr 16: Data Analysis
ZOOM at 5:00	Sagor Ch 8: Analyzing the Data (selected pages)	<ul><li>Reliability,</li><li>Generalizability</li><li>Data Analysis:</li></ul>	
Mar 6 <mark>Synchronous</mark>	Mills Ch 6: Data Collection Part 2: Considerations (selected pages)	<ul> <li>Ensuring Trustworthiness</li> <li>Validity,</li> </ul>	Due on Bb on Sunday Mar 12: Data     Collection
Feb 27 4:00-7:00		<ul> <li>Individual 10 min. meetings with Dr. Bean</li> </ul>	<ul> <li>You will meet with Dr. Bean</li> <li>Be prepared to share updates and ask questions</li> <li>Due on Bb on Sunday Mar 5: Instructional Change</li> </ul>
Feb 20 <mark>Synchronous</mark> ZOOM at 5:00	<b>Mills Ch 5:</b> Data Collection Part 1: techniques	<ul> <li>Qualitative Data Collection and Analysis</li> <li>Quantitative Data Collection and Analysis</li> </ul>	<ul> <li>Due on Bb on Sunday Feb 26: Annotated Bibliography Chart</li> </ul>
	https://www.ascd.org/el/articles/through- the-lens-of-a-critical-friend	<ul> <li>Meet Critical Friends to establish communication</li> </ul>	

at 5:00	Sharing Symposium	
		Due on Bb on Sunday May 7: FINAL Paper

## CORE VALUES COMMITMENT

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



# GMU POLICIES AND CAMPUS RESOURCES FOR STUDENTS

## POLICIES

Students must adhere to the guidelines of the Mason Honor Code (see <u>http://oai.gmu.edu/the-mason-honor-code/</u>).

Students must follow the university policy for Responsible Use of Computing (see <u>http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/</u>).

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 <u>http://ods.gmu.edu/</u>).

Students must follow the university policy stating that all sound emitting devices shall be silenced during class unless otherwise authorized by the instructor.

# **CAMPUS RESOURCES**

Support for submission of assignments to Tk20 should be directed to <u>tk20help@gmu.edu</u> or <u>https://cehd.gmu.edu/aero/tk20</u>. Questions or concerns regarding use of Blackboard should be directed to <u>http://coursessupport.gmu.edu/</u>.

The Writing Center provides a variety of resources and services (e.g., tutoring, workshops, writing guides, handbooks) intended to support students as they work to construct and share knowledge through writing (see <a href="http://writingcenter.gmu.edu/">http://writingcenter.gmu.edu/</a>).

The Counseling and Psychological Services (CAPS) staff consists of professional counseling and clinical psychologists, social workers, and counselors who offer a wide range of services (e.g., individual and group counseling, workshops and outreach programs) to enhance students' personal experience and academic performance (see <u>http://caps.gmu.edu/</u>).

The Student Support & Advocacy Center staff helps students develop and maintain healthy lifestyles through confidential one-on-one support as well as through interactive programs and resources. Some of the topics they address are healthy relationships, stress management, nutrition, sexual assault, drug and alcohol use, and sexual health (see <a href="http://ssac.gmu.edu/">http://ssac.gmu.edu/</a>). Students in need of these services may contact the office by phone at 703-993-3686. Concerned students, faculty and staff may also make a referral to express concern for the safety or well-being of a Mason student or the community by going to <a href="http://ssac.gmu.edu/make-a-referral/">http://ssac.gmu.edu/make-a-referral/</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 <u>titleix@gmu.edu</u>.

# For information on student support resources on campus, see <u>https://ctfe.gmu.edu/teaching/student-</u> <u>support-resources-on-campus</u>

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

## **EMERGENCY PROCEDURES**

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

Final Paper: Action Research Rubric					
Levels/Criteria	2-3 points	1-2 points	0-1 points		
Introduction:	The problem is described in	The problem is adequately	The problem is not		
Describes the	details. The description fully	described. The description	adequately described. It does		
problem. Clear	leads the reader to the	partially leads the reader to	not lead the reader to the		
research	research question. The	the research question. The	research question. The		
question stated.	research question is clear. It	research question is vague. It	research question is unclear.		
Significance of	is measureable. The	is measureable. The	It is not measureable. The		
problem is	significance of the problem is	significance of the problem is	significance of the problem is		
addressed.	addressed fully. It is clear	adequately addressed, but it	unfocused and rambles. It is		
InTASC 9	why this is an important	is not clear as to why this is	not clear why this is an		
ACEI 5.1	problem to study.	important.	important topic to study.		
Annotated	Eight research studies are	Five to seven research	Less than five research		
Bibliography:	used to support the literature	studies are used. At least one	studies are used. The articles		
Research studies	review. These are from	of them is from a respectable	are not from respectable		
are used.	respectable journals. The	journal. The studies are	journals. The studies are not		
Studies relate to	studies are appropriate for	somewhat appropriate for	appropriate for the topic or		
the research	the topic and research	the topic and research	research question.		
question.	questions. Bibliography is in	question. Bibliography			
InTASC 9	APA style with no errors.	follows APA style with no			
ACEI 5.1		more than two errors.			
Context and	The setting is fully described.	The setting is adequately	Setting is not included or		
Intervention	It includes, size of school,	described. Most information	inadequately described. It is		
Provided:	location, grade level, subject	is included, but not all.	not clear where the research		
Setting	taught, etc. All pertinent	The population is adequately	will be conducted.		
Described.	information is included.	described. Most information	Population is not included or		
Population	The population is fully	is included, but not all.	inadequately described. It is		
identified.	described. It includes number	Intervention is adequately	not clear who will be		
Intervention. InTASC 9	of students, gender and ethnic breakdown, grade	described, but either the description of the	participating in the research study.		
ACEI 5.1	levels, academic abilities, etc.	intervention or the	There is no intervention or		
ACEI J.I	Information relevant to the	implementation is confusing.	implementation explained or		
	research is included.	implementation is containing.	the intervention does not		
	Intervention is fully		align with the research		
	described. It is clear what the		question.		
	intervention is and how it will		question		
	be implemented.				
	Intervention is realistic.				
Research Design:	The methodology chosen	Two of the three stated	None or one of the criteria is		
Design of study	(quantitative, qualitative,	criteria are adequate.	adequate. The research is not		
matches goals.	mixed methods) is	Formative and summative	ethical.		
Formative and	appropriate for the research	assessments are included in	Either formative or		
Summative	question. There is adequate	the design. Copies are not	summative assessments are		
Assessments	time allowed for data	included and they are not	included, but not both.		
included.	collection. The treatment is	well described.	Copies are not included and		
Data sources	reasonable and ethical.	Most, but not all, of the data	they are not well described.		
appropriate.	There is a mixture of	sources are appropriate.	The majority of the data		
InTASC 9	formative and summative		sources are not appropriate		
ACEI 5.1	assessments included in the				

# Final Paper: Action Research Rubric

Levels/Criteria	2-3 points	1-2 points	0-1 points
	design. They are well- described or a copy is included. All data sources are appropriate for the research question. The information collected will help answer the question.		for the research question. Data collected is not ethical.
Analysis of Data: Appropriate analysis for data collected. InTASC 9 ACEI 5.1	The entire analysis of the data is appropriate. The information gathered addresses the research question.	The majority of the analysis is appropriate. However, it is not clear how other parts were analyzed.	The analysis is inappropriate or not well-defined.
Findings and Implications: Findings are presented clearly. Implications from data proposed. Connects back to the findings. INTASC 9 ACEI 5.1	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.	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. However, the implications are not tied back to the results.	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. The implications are not tied back to the results.
Overall Style: Clear, concise writing. Grammar and punctuation. Multiple levels of headings used to organize ideas. InTASC 9 ACEI 5.1	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.	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.	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.