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

**Instructional Design and Technology (IDT)** 

EDIT 590 DL1: Educational Research in Technology 3 Credits, Fall 2017

### **PROFESSOR:**

Name: Dr. Ryan Rucker

Office hours: By Appointment

Office location: Thompson Hall, L040

Cell phone: 803-730-6714 (please no text/calls after 10 pm ET)

Email address: rrucker2@gmu.edu (I will respond to all emails within 48 hours)

# **Prerequisites/Corequisites**

None

# **University Catalog Course Description**

Focuses on developing skills, insights, and understanding basics to performing research with emphasis on interpretation, application, critique, and use of findings in educational settings. Students develop expertise in action research methodology, design, and implementation.

### **Course Overview**

This course introduces fundamental concepts and practices in educational research in technology. Specific applications of educational research methods to problems in instructional design, instructional and/or assistive technologies will be covered. Readings, discussions, and project assignments systematically follow the research design process to ultimately produce a research proposal as well as develop skills to evaluate educational research articles will be explored.

# **Course Delivery Method**

This course will be delivered online using the asynchronous format via the Blackboard learning management system (LMS) housed in the MyMason portal. You will log in to the Blackboard course site using your Mason email name (everything before "@masonlive.gmu.edu) and email password. The course site will be available on Monday, August 21, 2017.

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.

# Technical Requirements

To participate in this course, students will need the following resources:

- High-speed Internet access with a standard up-to-date browser, either Internet Explorer or Mozilla Firefox. Opera and Safari are not compatible with Blackboard;
- Consistent and reliable access to their GMU email and Blackboard, as these are the official methods of communication for this course
- 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 the course requirements.
- The following software plug-ins for Pcs and Macs respectively, available for free downloading by clicking on the link next to each plug-in:
  - Adobe Acrobat Reader: http://get.adobe.com/reader
  - Adobe Flash Player: https://get.adobe.com/flashplayer/
- A headset microphone for use with the Blackboard Collaborate/Adobe Connect web conferencing tool

# **Expectations**

### Course Week:

Because asynchronous courses do not have a "fixed" meeting day, our week will **start** on Sunday, and **finish** on Saturday.

- O Dr. Rucker will produce some short lectures that will need to be reviewed weekly. In addition, <u>3</u> optional synchronous class sessions will be offered (see course schedule for meeting days/times) via Adobe Connect. The intent of these optional sessions is for students to receive any assistance or resolve any course-related issues.
- **Log-in Frequency**: Students must actively check the course Blackboard site and their GMU email for communications from the instructor, at a minimum this should be 3 times per week.
- **Participation**: Students are expected to actively engage in all course activities throughout the semester, which include viewing of 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 are expected to seek assistance if they are struggling with technical components of the course.
- **Technical Issues**: Students should expect that they could experience some technical difficulties at some point in the semester and should, therefore, budget their time accordingly. Late work will not be accepted based on individual technical issues.
- Workload: Expect to log in to this course at least 3 times a week to read
  announcements, participate in the discussions, and work on course materials.
   Remember, this course is not self-paced. There are specific deadlines and due dates

- listed in the **CLASS SCHEDULE** section of this syllabus to which you are expected to adhere. It is the student's responsibility to keep track of the weekly course schedule of topics, readings, activities and assignments due.
- **Instructor Support:** If you would like to schedule a one-on-one meeting to discuss course requirements, content or other course-related issues, we can meet via telephone or web conference. Send me an email to schedule your one-on-one session and include your preferred meeting method and suggested dates/times.
- **Netiquette:** Our goal is to be **collaborative**, not combative. Experience shows that even an innocent remark in the online environment can be misconstrued. I suggest that you always re-read your responses carefully before you post them to encourage others from taking them as personal attacks. **Be positive in your approach to others and diplomatic with your words.** I will do the same. Remember, you are not competing with each other but sharing information and learning from one another as well as from the instructor.
- **Accommodations**: Online learners who require effective accommodations to insure accessibility must be registered with George Mason University Disability Services.

### **Learner Outcomes**

At the conclusion of this course, students will be able to:

- Identify various methods of research suitable for different purposes in the field of instructional design and technology
- Compare/contrast quantitative, qualitative, and mixed methods research approaches
- Discuss basic theories and methods of action research in the field of instructional design and technology
- Describe the most common tools for research data analyses in the field of instructional design and technology
- List the most common components or sections of a research study required for publication
- Analyze and critique a published research study in the field of instructional design and technology
- Design a small research study incorporating the most common components or sections required for publication

# Professional Standards (2012 International Board of Standards for Training, Performance and Instruction (IBSTPI)):

- 1. Professional Foundations
  - 1. Communicate effectively in visual, oral, and written form
  - 2. Apply research and theory to the discipline of instructional design
  - 4. Apply data collection and analysis skills in instructional design projects
  - 5. Identify and respond to ethical, legal, and political implications of design in the workplace

# **Required Texts**

Plano Clark, V. & Creswell, J. (2015). *Understanding Research: A consumer's guide* (2<sup>nd</sup> ed.). Upper Saddle River, NJ: Pearson.

Publication Manual of the American Psychological Association, Sixth Edition

#### **Course Performance Evaluation**

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

# • Assignments

1) Infographic (4% of final grade)

To help introduce yourself to fellow classmates and Dr. Rucker, you will have to create an infographic during the first week of the course. Detailed instructions on using Piktochart (free Web 2.0 infographic tool) will be provided to you during the first week on Blackboard.

This assignment should be submitted via the discussion board on Blackboard.

2) Self-Check Quizzes (10% of final grade)

In order to ensure that all students are reading the required chapters, a weekly assessment will be given. These assessments will consist of 10 questions (multiple choice and true/false questions).

These assessments should be posted and submitted via Blackboard.

3) Research Proposal (45% of final grade)

Throughout the semester you will develop a "mini" research proposal (10-15 pages). I will provide more details about this product as we move through the semester, but basically I will be asking you to draft the proposal in pieces as we move through the subject matter of the class. Near the end of the semester you will have a complete draft, which you will submit for peer review by other members of the class (and me). Based on your peer review and my comments on pieces or the complete draft, you will have the opportunity to revise and ultimately submit the proposal for grading. I expect the proposal to have the following sections:

- a. A statement of the problem to be addressed via the proposal, including an introduction relating your reason for undertaking the research (significance) and leading to a statement of research question(s), problem, or issue, which is guiding the research. Typically, 1-4 paragraphs in-length.
- b. An abbreviated review of theory and research related to the problem (your literature review)—I will ask for a minimum of four articles, though you are welcome to include more to suit your own purposes. Typically, 9-15 paragraphs in-length.
- c. Methodological details—including a description of the data collection approach, desired participants, approach to recruitment of participants, drafts of data collection instruments (e.g. questionnaire, interview or observation guide), your

- approach to managing the data that you collect, etc.—the who, what, where, why, and how of your research. Typically, 5-15 paragraphs in-length.
- d. A tentative analysis plan—what you plan to do with the data to make sense of it, and
- e. List of references—items referred to in the proposal.

The Research Proposal assignment is a performance-based assessment, the grading for which is located at the end of this syllabus. This assignment must be uploaded to Blackboard under the ASSESSMENTS link.

# 4) Articles Selection (20% of final grade)

To complete the research proposal, you will need to conduct a short literature review. In order to conduct any literature review, various articles (e.g., journal articles) must be located. For this assignment, you will need to locate 4 to 8 articles that you plan on using in the literature review. Once you locate these articles, cite these articles in proper APA, and submit the citations in a Microsoft Word document.

Using one of the articles identified in the assignment, you will perform a no less than 2-page but no more than 3-page double-spaced article critique. Dr. Rucker will provide more details on what questions to answer in your critique throughout the semester.

This assignment should be submitted on Blackboard (under Week #11's folder).

# 5) Research Blogs (21% of final grade /3 perecent per blog)

For some of the weeks in the course, we will discuss elements related to your research proposal (e.g., selecting the research method). During these weeks, you will need to draft a copy of that particular section that you will place within the research proposal. Remember, this is an early draft of that particular section—a work in progress—not your final version. In addition to posting your draft, students are expected to comment/provide feedback to at least 3 classmates. Note: 2 points are given for posting your draft and 1 point for commenting.

Each blog entry and comments to peers will be submitted via the Blackboard blogging tool.

# • Grading Policy

Grading Scale:

A+	97-100 points
A	94-96 points
A-	92-93 points
B+	90-92 points
В	85-89 points
B-	80-84 points
С	70-79 points
F	0-69 points

\*\*Note: A+ are given to those students who exceed (go over and beyond) the assignment requirements. \*\*

# Late Work Policy

I will accept assignments up to <u>one</u> week late, with the exception of the Research Proposal, for a 20% deduction off of the final grade. The Research Proposal cannot be submitted late—do not ask for an extension. All due dates for each assignment are provided to you in the schedule within this course syllabus. Please bookmark these dates on your personal calendar.

# **Professional Dispositions**

Students are expected to exhibit professional behaviors and dispositions at all times. See <a href="https://cehd.gmu.edu/students/polices-procedures/">https://cehd.gmu.edu/students/polices-procedures/</a>

# **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: <a href="http://cehd.gmu.edu/values/">http://cehd.gmu.edu/values/</a>.

### GMU POLICIES AND RESOURCES FOR STUDENTS

## **Policies**

- Students must adhere to the guidelines of the Mason Honor Code (see <a href="http://oai.gmu.edu/the-mason-honor-code/">http://oai.gmu.edu/the-mason-honor-code/</a>).
- Students must follow the university policy for Responsible Use of Computing (see <a href="http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/">http://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="http://ods.gmu.edu/">http://ods.gmu.edu/</a>).
- 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 <a href="tk20help@gmu.edu">tk20help@gmu.edu</a> or <a href="https://cehd.gmu.edu/aero/tk20">https://cehd.gmu.edu/aero/tk20</a>. Questions or concerns regarding use of Blackboard should be directed to <a href="http://coursessupport.gmu.edu/">http://coursessupport.gmu.edu/</a>.
- 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>

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

# **Class Schedule**

Week #	Learning Module	Textbook Readings Weekly Activities	Due Dates *Saturday by 11:59 pm EST
1 (August 28- September 2)	Welcome	<ul> <li>Buy required textbook</li> <li>Review syllabus/schedule</li> <li>Read Chapter 1 (p. 1-25)</li> <li>Review Lecture #1</li> <li>Optional Virtual Class #1: Monday, August 28 (8:00 pm-9:00 pm)</li> </ul>	Infographic
2 (September 3-9)	What is Research	<ul> <li>Read Chapter 1 (p. 1-25)</li> <li>Review Lecture #1</li> <li>Select research topic</li> <li>Identify theoretical framework</li> </ul>	Research Blog #1 (Select a topic & theoretical framework) Quiz #1
3 (September 10-16)	Introduction to Qualitative vs Quantative	<ul><li>Read Chapter 2 (p. 53-76)</li><li>Review Lecture #2</li></ul>	Quiz #2
4 (September 17-23)	Statements of the Problem	<ul> <li>Read Chapter 3 (p.79-96)</li> <li>Review Lecture #3</li> <li>Write purpose statement</li> </ul>	Research Blog #2 (Write Problem Statement) Quiz #3
5 (September 24-30)	Purpose Statement and Research Questions	<ul> <li>Read Chapter 5 (p. 161-188)</li> <li>Review Lecture #4</li> <li>Write Purpose Statement and Research Questions</li> </ul>	Research Blog #3 (Purpose Statement and Research Questions)  Quiz #4
6 (October 1-7)	Quantitative Research	<ul> <li>Read Chapter 6 (p. 191-214)</li> <li>Read Chapter 7 (p. 231-253)</li> <li>Review Lecture #5</li> </ul>	Quiz #5
7 (October 8-14)	Qualitative Research	<ul><li>Read Chapter 9 (p. 285-305)</li><li>Read Chapter 10 (p.</li></ul>	Quiz #6

Nixed Methods   Review Lecture #6	
383-498) • Review Lecture #7  9 (October 22-28)  Method Selection  Optional Virtual Class #2: Monday, October 23 (8:00 pm-9:00 pm)  10 (October 29- November 4)  Collection  Instrument/Data Collection  Collection  Collection  Collection  Locating & Critiquing Literature  Research Blog (Research Method)  Optional Virtual Class #2: Monday, October 23 (8:00 pm-9:00 pm)  • Draft an instrument used for data collection  Collection  Locating & Critiquing Literature review  Iterature review  Preview Lecture #8  Research Blog (Instrument Selection)  Articles Selection and Article Critique  Review Lecture #8  • Review Lecture #8  • Construct a draft of the literature review  13 (November 19-25)  Work on Draft  Write Blog #4 (Research Blog (Instrument Selection)  Preview Articles Selection and Article Critique  Critique  Review Draft)	
9 (October 22-28)  Method Selection  Optional Virtual Class #2: Monday, October 23 (8:00 pm-9:00 pm)  10 (October 29- November 4)  Locating & Critiquing Literature  12 (November 12-18)  Write Blog #4 (Research Method)  Optional Virtual Class #2: Monday, October 23 (8:00 pm-9:00 pm)  • Draft an instrument used for data collection  Locate articles for literature review  12 (November 12-18)  Writing Literature Review  • Read Chapter 4 (p. 118-146) • Review Lecture #8 • Construct a draft of the literature review  13 (November 19-25)  Work on Draft  • Write Blog #4 (Research Blog (Instrument Selection)  Research Blog (Instrument Selection)  Articles Selection (Literature Review Draft)  • Read Chapter 4 (p. 118-146) • Construct a draft of the literature review  Work on the draft of	
(Research Method)  Optional Virtual Class #2: Monday, October 23 (8:00 pm-9:00 pm)  10 (October 29- November 4)  Collection  11 (November 5-11)  Locating & Critiquing Literature  12 (November 12-18)  Writing Literature  Review  Review  Review  Review  13 (November 19-25)  Work on Draft  (Research Method)  (Instrument selection)  Locate articles for literature review  1 Research Blog (Literature Review Draft)  Construct a draft of the literature review  13 (November 19-25)  Work on Draft  Werk on the draft of	
Optional Virtual Class #2: Monday, October 23 (8:00 pm-9:00 pm)  10 (October 29- November 4)  Collection  11 (November 5-11)  Locating & Critiquing Literature  12 (November 12-18)  Writing Literature  Review  Provided Heritage (Literature Review)  Research Blog (Instrument Selection)  Articles Selection  Articles Selection and Article Critique  Research Blog (Instrument Selection)  Articles Selection and Article Critique  Review Lecture #8  Review Lecture #8  Construct a draft of the literature review  13 (November 19-25)  Work on Draft  Optional Virtual Class  #2: Monday, October 23 (8:00 pm-9:00 pm)  Research Blog (Literature Review Draft)  Optional Virtual Class  #2: Monday, October 23 (8:00 pm-9:00 pm)  Provided Heritage Research Blog (Literature Review Draft)  Optional Virtual Class  #2: Monday, October 23 (8:00 pm-9:00 pm)  Provided Heritage Research Blog (Literature Review Draft)  Optional Virtual Class  #2: Monday, October 23 (8:00 pm-9:00 pm)  Provided Heritage Research Blog (Literature Review Draft)  Option Heritage Research Blog (Literature Review Draft)	, #5
Optional Virtual Class #2: Monday, October 23 (8:00 pm-9:00 pm)  10 (October 29- November 4)  Collection  11 (November 5-11)  Locating & Critiquing Literature  Literature  12 (November 12-18)  Writing Literature Review  Research Blog (Instrument used for data collection  Locate articles for literature review  Research Blog (Instrument Selection)  Articles Selection  Articles Selection  Research Blog (Instrument Selection)  Articles Selection  Research Blog (Instrument Selection)  Articles Selection  12 (November 12-18)  Research Blog (Literature Review Lecture #8  Review Lecture #8  Construct a draft of the literature review  13 (November 19-25)  Work on Draft  Work on the draft of	<del>.</del> #5
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11 (November 5-11) Locating & Critiquing Literature  • Locate articles for literature review  12 (November 12-18) Writing Literature Review  • Read Chapter 4 (p. 118-146) (Literature Review Lecture #8 • Construct a draft of the literature review  13 (November 19-25) Work on Draft  • Work on the draft of	
Literature    Literature   literature review   and Article Critique	
Critique  12 (November 12-18) Writing Literature Review  118-146) (Literature Review Draft)  • Review Lecture #8 • Construct a draft of the literature review  13 (November 19-25) Work on Draft  • Work on the draft of	tion
12 (November 12-18) Writing Literature Review  • Read Chapter 4 (p. 118-146) (Literature Review Lecture #8 • Construct a draft of the literature review  13 (November 19-25) Work on Draft  • Read Chapter 4 (p. 118-146) • Review Lecture #8 • Construct a draft of the literature review  • Work on the draft of	
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13 (November 19-25) Work on Draft   • Work on the draft of	
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Optional Virtual Class	
#3: Monday, November	
20 (8:00 pm-9:00 pm)	
14 (November 26- Submit Draft & Submit draft of your Research Blog	g #7
December 2) Provide Feedback proposal to blog (Proposal Draft	ft)
Provide feedback to	
at least 3 classmates.	
15 (December 3-9) Revise Feedback • Review feedback	
16 (December 10- Submit Research • Research Proposal Research	
December 13) Proposal due by Wednesday, Proposal	
December 13 at	
11:59 pm ET	

# **Assessment Rubric**

# Research Proposal Grading Rubric

IBSTPI	Criteria	Does Not Meet	Meets Standards	Exceeds Standards
Competency		Standards		
Professional	Introduction	Poorly	Fairly well	Well formulated
Foundations: 1:		formulated/no	formulated	introduction
Communicate		introduction; no	introduction	supported by
effectively in		evidence specific to	supported by weak	strong sources of
written & oral		the topic	sources of evidence	evidence specific
form		·	specific to the topic	to the topic
		Point values: 0-1	Point values: 2-3	Point values: 4-5
Professional	Research	Poorly posed/missing	Fairly well posed	Very clearly posed
Foundations: 2:	topic/problem	problem statement;	statement of the	statement of the
Apply current		no evidence to	problem but	problem
research and		support the problem	evidence to support	supported by
theory to the			the problem is weak	strong evidence
discipline of				
instructional				
design		Point values: 0-1	Point values: 2-3	Point values: 4-5
Professional	Purpose of the	Purpose of the study	Fairly well stated	Very clearly stated
Foundations: 2:	study	is poorly	purpose that	purpose that
Apply current		stated/missing or	connects to the	connects well to
research and		does not connect	introduction and	the introduction
theory to the		with the introduction	the problem	and the problem
discipline of		and/or problem	statement	statement
instructional		statement		
design				
		Point values: 0-1	Point values: 2-3	Point values: 4-5
Professional	Literature review	Superficial review of	Thorough review of	Thorough review
Foundations:		the literature that	the literature that	of the literature
5:		does not analyze the	summarizes the	that analyzes
Identify		findings to identify	findings but does	previous studies
ethical, legal &		study limitations	not use study	and findings
political		justifying the	limitations to justify	whose limitations
implications of		proposed study;	the proposed study;	justify the
design in the		fewer than four	four or fewer	proposed study; a
workplace		empirical research	empirical research	minimum of four
		study references	study references	(4) empirical
		included	included	research study
				references
				included
		Point values: 0-3	Point values: 4-6	Point values: 7-10

IBSTPI	Criteria	Does Not Meet	Meets Standards	Exceeds Standards
Competency	G. N.G. I.G.	Standards		
Professional Foundations: 4: Apply data collection & analysis skills to instructional	Research questions/ hypotheses	Poorly stated/missing research questions/ hypotheses; no basis in research	Fairly well stated research questions/ hypotheses based somewhat on research problem and study purpose	Well stated research questions/hypothese s based on research problem and study purpose
design projects		problem or study purpose  Point values: 0-1	Point values: 2-3	Point values: 4-5
Professional Foundations: 4: Apply data collection & analysis skills to instructional design projects	Methodology	Superficial/missing description of methodology elements; methodology is not appropriate to research questions/ hypotheses	Detailed description of two to three methodology elements; methodology is appropriate to research questions/ hypotheses	Detailed description of all four methodology elements - research design, participants/ respondents, data collection and analysis methods; methodology is appropriate to research questions/ hypotheses
		Point values: 0-1	Point values: 2-3	Point values: 4-5
Professional Foundations: 1: Communicate effectively in written & oral form	Language	Rules of English grammar, usage, spelling and punctuation are not followed; multiple language errors throughout the proposal	Rules of English grammar, usage, spelling and punctuation are generally followed throughout the proposal; one or two minor language errors  Point values: 2-3	Rules of English grammar, usage, spelling and punctuation are followed consistently throughout the proposal; no language errors  Point values: 4-5
Professional	APA style	Does not adhere to	Generally adheres to	Consistently adheres
Foundations: 1: Communicate effectively in written & oral	,	APA 6 <sup>th</sup> edition style in the proposal	APA 6 <sup>th</sup> edition style throughout the proposal	to APA 6 <sup>th</sup> edition style throughout the proposal
form		Point values: 0-1	Point values: 2-3	Point values: 4-5