

**GEORGE MASON UNIVERSITY
COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT
GRADUATE SCHOOL OF EDUCATION
Instructional Design and Technology (IDT)**

EDIT 590 B01: Educational Research in Technology
3 Credits, Summer 2017

PROFESSOR:

Name: Dr. Ryan Rucker

Office hours: By Appointment

Office location: Thompson Hall, L040

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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, May 29, 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.
 - Dr. Rucker will produce some short lectures that will need to be reviewed weekly. In addition, **4** 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.

- **Advising:** 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

Creswell, J. (2013). *Research design: Qualitative, Quantitative, and Mixed Methods Approaches* (4th ed.).

Course Performance Evaluation

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

- **Assignments**

- 1) Research Proposal (45 points)
- 2) Articles Selection & Critique (25 points)
- 3) Research Blogs (30 points/5 points per blog/Total of 6 blogs)

- **Grading Policy**

Grading Scale:

A+	97-100 points
A	94-96 points
A-	92-93 points
B+	90-92 points
B	85-89 points
B-	80-84 points
C	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 one 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.

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 RESOURCES FOR STUDENTS

Policies

- Students must adhere to the guidelines of the George Mason University Honor Code (See <http://oai.gmu.edu/the-mason-honor-code/>).
- 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 George Mason University email account and are required to activate their account and check it regularly. All communication from the university, college, school, and program will be sent to students **solely** through their Mason email account.
- Students with disabilities who seek accommodations in a course must be registered with the George Mason University Office of Disability Services (ODS) and inform their instructor, in writing, at the beginning of the semester (See <http://ods.gmu.edu/>).
- Students must follow the university policy stating that all sound emitting devices shall be turned off 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/api/tk20>. Questions or concerns regarding use of Blackboard should be directed to <http://courseessupport.gmu.edu/>.
- The George Mason University Writing Center staff provides a variety of resources and services (e.g., tutoring, workshops, writing guides, handbooks) intended to support students as they work to construct and share knowledge through writing (see <http://writingcenter.gmu.edu/>).
- The George Mason University Counseling and Psychological Services (CAPS) staff consists of professional counseling and clinical psychologists, social workers, and counselors who offer a wide range of services (e.g., individual and group counseling, workshops and outreach programs) to enhance students' personal experience and academic performance (See <http://caps.gmu.edu/>).
- The George Mason University Office of Student Support staff helps students negotiate life situations by connecting them with appropriate campus and off-campus resources.

Students in need of these services may contact the office by phone (703-993-5376). 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 <http://studentsupport.gmu.edu/>, and the OSS staff will follow up with the student.

For additional information on the College of Education and Human Development, Graduate School of Education, please visit our website <http://gse.gmu.edu/>.