



**College of Education and Human Development  
Division of Special Education and disAbility Research**

Spring 2023  
EDSE 643 671: Instructional Strategies for Math  
CRN: 24035, 3 – Credits

<b>Instructor:</b> Dr. Laura Szupinka	<b>Meeting Dates:</b> 3/15/2023- 5/17/2023
<b>Phone:</b> 703-791-9310 <b>Zoom:</b>	<b>Meeting Day(s):</b> Wednesday
<b>E-Mail:</b> <a href="mailto:lszapink@gmu.edu">lszapink@gmu.edu</a>	<b>Meeting Time(s):</b> 4:45 pm – 9:15 pm
<b>Office Hours:</b> By appointment	<b>Meeting Location:</b> Briar Woods High School Room 311
<b>Office Location:</b> Phone/Zoom Preferred	<b>Other Phone:</b> N/A

**Note:** This syllabus may change according to class needs. Teacher Candidates/Students will be advised of any changes immediately through George Mason e-mail and/or through Blackboard.

**Prerequisite(s):**

None

**Co-requisite(s):**

None

**Course Description**

Integrates foundational knowledge of numeracy acquisition, mathematical concepts, mathematical thinking, mathematics vocabulary, calculation, and problem-solving to plan well-sequenced and explicit math instruction for students with disabilities in the general education curriculum. Examines objectives that align with the general education curriculum Virginia Standards of Learning in mathematics at the elementary, middle, and secondary levels while still providing individualization. Field experience required.

**Course Overview**

EDSE 643 examines the foundational knowledge of the complex nature of numeracy acquisition and nature of mathematics including mathematical concepts, mathematical thinking, mathematics vocabulary, calculation, and problem-solving, as well as alternative ways to teach

content material including curriculum adaptation and curriculum modifications for students with disabilities in the general education curriculum.

### **Advising Contact Information**

Please make sure that you are being advised on a regular basis as to your status and progress in your program. Students in Special Education and Assistive Technology programs can contact the Special Education Advising Office at 703-993-3670 or [speced@gmu.edu](mailto:speced@gmu.edu) for assistance. All other students should refer to their assigned program advisor or the Mason Care Network (703-993-2470).

### **Advising Tip**

Are you familiar with Mason career resources? Email [speced@gmu.edu](mailto:speced@gmu.edu) to be added to the Special Education employment listserv, and check out Career Services: <https://careers.gmu.edu/>.

### **Course Delivery Method**

Learning activities include the following:

1. Class lecture and discussion
2. Application activities
3. Small group activities and assignments
4. Video and other media supports
5. Research and presentation activities
6. Electronic supplements and activities via Blackboard

### **Learner Outcomes**

Upon completion of this course, students will be able to:

1. Understand curriculum development that includes a scope and sequence, lesson plans, instructional methods, and assessment based on the general education curriculum Virginia Standards of Learning in math at the elementary, middle, and secondary level.
2. Understand, distinguish, and evaluate the differences between procedural, conceptual, and declarative knowledge in order to provide explicit instruction of math to students with disabilities who are accessing the general educational curriculum.
3. Understand foundational knowledge of math including numeracy acquisition, mathematical concepts, mathematical thinking, mathematics vocabulary, calculation, and problem-solving.
4. Demonstrate the ability to identify and distinguish appropriate data-based modifications and accommodations for general or specialized instruction as needed for students with disabilities who access the general education curriculum.
5. Design and demonstrate the application of assistive and instructional technologies to support assessment, planning, and delivery of academic content to students with disabilities who access the general education curriculum.
6. Demonstrate the ability to construct and implement individual educational planning and systematic, explicit instruction for students with disabilities who access the general education curriculum including:
  - a. Essential mathematical concepts, vocabulary, and content across general and specialized curriculum
  - b. Numeracy acquisition

- c. Problem solving
- d. Calculation

7. Synthesize and then appraise the individual abilities, interests, learning environments, and cultural and linguistic factors in the selection, development, and adaptation of learning experiences for students with disabilities who access the general education curriculum.
8. Apply course concepts to K-12 school settings through field-based learning experiences (e.g., field experiences in K-12 classrooms, field-based case studies, field-based virtual/online learning experiences).

### **Professional Standards**

(Council for Exceptional Children [CEC] and the Interstate Teacher Assessment and Support Consortium [InTASC]). Upon completion of this course, students will have met the following professional standards: CEC Standard 3: Curricular Content Knowledge (InTASC 3, 4); CEC Standard 5: Instructional Planning and Strategies (InTASC 7, 8).

### **Required Texts**

*Textbook:* Fennell, F., Kobett, B. M., & Wray, J. A. (2017). *The formative 5: Everyday assessment techniques for every math classroom*. Thousand Oaks, CA: Corwin

### **Recommended Texts**

American Psychological Association. (2020). *Publication manual of the American Psychological Association* (7th ed.). <https://doi.org/10.1037/0000165-000>

### **Required Resources**

See Blackboard

### **Additional Readings**

See Blackboard

### **Course Performance Evaluation**

Students are expected to submit all assignments on time in the manner outlined by the instructor (e.g., Blackboard, VIA, hard copy).

### **VIA Performance-Based Assessment Submission Requirement**

It is critical for the special education program to collect data on how our students are meeting accreditation standards. Every teacher candidate/student registered for an EDSE course with a required Performance-based Assessment (PBA) is required to upload the PBA to VIA/SLL (regardless of whether a course is an elective, a one-time course or part of an undergraduate minor). A PBA is a specific assignment, presentation, or project that best demonstrates one or more CEC, InTASC or other standard connected to the course. A PBA is evaluated in two ways. The first is for a grade, based on the instructor's grading rubric. The second is for program accreditation purposes. Your instructor will provide directions as to how to upload the PBA to VIA/SLL.

For EDSE 643, the required PBA is (NO ASSESSMENT REQUIRED FOR THIS COURSE). Please check to verify your ability to upload to VIA/SLL before the PBA due date.

### **Assignments and/or Examinations**

#### **Performance-based Assessment (VIA submission required)**

N/A

#### **College Wide Common Assessment (VIA submission required)**

N/A

### **Field Experience Requirement**

A field experience is a part of this course. A field experience includes a variety of early and ongoing field-based opportunities in which candidates may observe, assist, and/or teach. Field experiences may occur in off-campus settings, such as schools (CAEP, 2016). Below are REQUIRED PROCEDURES FOR ALL STUDENTS ENROLLED IN THIS COURSE.

1. Complete the online EDSE Field Experience form. This online form will be sent to your GMU email from EDSEfld@gmu.edu on the first day of the semester. Click on the link and complete the form as soon as possible. ALL students should complete the required form, as this information is required by the state. Please direct any questions about the form to Dr. Kristen O'Brien at EDSEfld@gmu.edu.

If you are a full-time contracted school system employee and will complete the field experience at your worksite with administrator and instructor approval, you will be asked to specify the school at which you will be completing the field experience.

If you request a field experience placement, you will receive information via your GMU email about your assigned internship placement from the Clinical Practice Specialist in the College's TEACHERtrack Office. Check your GMU email regularly for important information regarding your field experience. Follow all instructions for the necessary Human Resource (HR) paperwork required to access the assigned field experience placement. Note that you may NOT arrange your own field experience placement.

2. View the EDSE Field Experience Introduction presentation. On the first week of classes and prior to representing George Mason in off-campus settings, your instructor will show a video presentation or provide a link to the presentation, which includes important information about the registration process for EDSE field experiences and tips for a successful field experience. After the presentation, sign the document provided by your instructor to indicate that you have watched the presentation and are aware of the EDSE field experience professionalism expectations.

3. Document your field experience hours. Your instructor may provide you with access to field experience documentation forms to use in documenting the hours and activities completed in

your field experience placement. Your instructor will provide more directions on how to use and submit the documentation form.

4. Complete the field experience end-of-semester survey if you had a placement arranged for you. Towards the end of the semester, if you had a field experience arranged for you, you will receive an email from EDSEfld@gmu.edu with a link to an online survey. This brief survey asks you to report about important features of your field experience placement.

5. Students must be able to perform the essential functions of the practicum site assigned with or without an accommodation. Contact Disability Services (ods@gmu.edu) for questions related to accommodations.

### **Other Assignments**

#### Assignment 1: Math Intervention Project (50 points)

You will select one student with a disability who accesses the general education curriculum. Using and applying assessment techniques, you will identify explicit areas of math for which the student requires an evidence-based strategy. Gather work samples that represent these areas of instructional need. Based on data and consultation with the child's teacher and your course instructor, you will select an evidence-based math strategy intervention and develop a plan for teaching. The instructor must approve your plan before you begin instruction. The teaching lesson plans, modified and adapted for your student, will highlight stages of effective strategy instruction. You will implement plans with the selected student. Performance data will be collected throughout your lessons. You are not expected to see significant gains in this short amount of time. At the end of the project, you will craft a reflective summary on how the experience of teaching this student using the selected intervention and teaching plan. Please refer to Blackboard for the rubric and submission folder for this assignment.

#### Directions:

1. Select one student in grades K–12 demonstrating mathematics difficulties.
2. Identify one math skill (i.e., SOL standard) for which the student would benefit receiving one-on-one teaching with you as the instructor.
3. Once a skill is selected, create 10 assessments to be used for Baseline and Intervention. Each assessment must have at least 5 unique problems (thus, you will need to create 50 problems for this project). All assessments must be identical in format.
4. Conduct three Baseline sessions. During Baseline, your goal is to see how much the student already knows, thus do not help them or provide any instruction during these sessions. Also, if the student does well, then you may need to select another skill to teach.
5. In consultation with the child's teacher, select one evidence-based practice (EBP) in math. This strategy will be paired with explicit instruction, thus explicit instruction cannot be the primary EBP selected here. Also, do not use more than one EBP.
6. Create one new comprehensive lesson plan for teaching the student using the strategy. The lesson plan must include each of the following separate sections:
  - a. One VA SOL/Common Core math standard with the lesson's objective(s)
  - b. Description of all prerequisite skills needed, essential concepts, vocabulary, and new skills to be covered
  - c. The evidence-based practice(s) to be used throughout
  - d. Materials needed to teach the lesson

e. Steps and activities to be completed during the modeling (I Do), guided (We Do), and independent practice (You Do) portions of the lesson. Within this section, you will outline in detail how the specific strategy you selected will be used

f. Use of one form of assistive technology in your lesson

g. 7 formative assessment questions used during Intervention sessions (1 per session). Intervention assessments cannot count as the formative assessment in your lesson.

7. Submit your lesson plan for approval by the date listed on the course schedule.

8. Teach your lesson to your student 7 separate times (each time is considered an Intervention session). In each session, first teach your student how to solve problems using the evidence-based practice. Afterwards, give them one assessment. During the assessment, do not help them or provide any instruction (your goal is to see how much they learned). During one of the 7 sessions, audio/video record your entire lesson.

9. Graph your student's performance illustrating their 3 Baseline sessions and 7 Intervention sessions. The graph must follow APA 7 guidelines, possess a title, and depict clearly marked x- and- y- axes. Please use Microsoft Excel to create your graph.

10. Write a three-page single-spaced reflection based on the one lesson you audio/video recorded. You must address the following topics in your paper using each as a level heading:

**PART 1: DESCRIBE WHAT HAPPENED.** Select any 5-minute section of the lesson you recorded. The section you select should include the child sharing their knowledge and understanding. Then describe what happened. Write the narrative, in a descriptive, unfolding way, so the reader has a sense of what it was like to be there. In your detailed description explain how the child solved or approached the problem(s) in real time. What did the child do, say, gesture, write, etc.? What did you say/do/record with the student? Do NOT add any judgment or analysis to this portion. Describe the child's written work or how you recorded the child's thinking to provide more details of what happened.

**PART 2: ANALYZE STUDENT THINKING.** Based on your narrative in PART 1, analyze the child's thinking by answering the following questions. What new information did you learn about the child? What specifically did the child do or say to make you think that? What did the child do or say that exhibited the child's strengths? Focus on what the student is able to do by naming the student's proficiencies and strengths (dispositions, processes, or content). Connect what the student did or said to the student's specific strategies, misconceptions, or conceptions. (Use content discussed in class to support your analysis).

**PART 3: ANALYZE WHAT YOU DID.** Based on your narrative in PART 1, reflect on what you specifically did during your time with the child to elicit and interpret student thinking. Use the following questions to guide your reflection: 7 o Are there questions or prompts that worked well for you? Why so? o How did the questions or prompts that you planned to use work for you? o Did you ask questions that supported the student's thinking or your thinking? o Did you ask questions or make statements that gave away the answer or disrupted/distracted from the students' thinking? o Did you give the student

appropriate wait time when you asked a question? o If you restated what the child was sharing with you, did you ask the child if you interpreted their understanding correctly? o Did you use or name the child's strengths as a way to leverage their thinking? o Did you have all the appropriate materials or manipulatives with you to appropriately support the child's learning and use your strategy? o What would you change about how you delivered your lesson?

**PART 4: PROFESSIONAL GROWTH.** Overall, how did you grow as a teacher over the course of the project? What lessons were learned from the assignment itself which included making assessments, designing a lesson plan, teaching the lesson, and collecting data? For example, "Moving forward, I need to take into account..."

11. Submit your documentation form, one lesson plan, 3 Baseline sessions, 7 Intervention sessions, one performance graph, and a three-page reflection as one document onto Blackboard. Please include them in this specific order, with each labeled accordingly at the top of a new page for each.

Assignment 2: Stations Activity (28 + 30 Points) \*See appendix for Rubric\*

Rubric will be designed in class, and activity completed in class. Instructor has final approval on the rubric. This activity will include the consumer Apps Evaluation Paper

- Consumer Apps Evaluation Paper (30 Points) Students will select one digital app or program available online for download to teach mathematics standards in K-12 education. Students will select one child/adult to use this app with and document their experience solving age-appropriate mathematics problems for 15–20 minutes. Afterwards, students will write a full two-page single-spaced paper reviewing this app and child/adults' performance. Reflections should focus on addressing the following topics with each as a level-heading: a. Feasibility for small and whole group instruction in inclusionary classrooms b. Benefits and foreseeable challenges for teachers c. Benefits and foreseeable challenges for students with disabilities d. The child/adults' opinion and experiences using the app e. Four explicit references with accompanying citations (and reference page) to concepts covered within the course lectures, handouts, and/or readings.

Assignment 3: Learning Tasks, Attendance, & Participation (45 Points) \*See appendix for Rubric\*

See Blackboard for detailed class agendas.

Assignment 4: Exit Tickets (27 Points) \*See appendix for Rubric\*

Exit tickets will be posted to the discussion board and are due prior to the start of the subsequent class. For example, Exit Ticket assigned 3.15.23 is due prior to 4:45 on 3.22.23.

Assignment 5: Microsoft Educator Certification (5 points for completion)

Google Alternative [Training Courses | Teacher Center | Google for Education](#)

1. Access [Microsoft Learn: Build skills that open doors in your career](#)
2. Sign-In using your professional credentials

3. Training/Learning Paths/Microsoft Educator Academy
4. Complete training path (5 Hours, 27 Minutes)
5. Send a screen shot of your completion badge. Go to Profile/ Achievements.

### Assignment Summary

Assignment 1: Math Intervention Project	50 Points
Assignment 2: Stations Activity	58 points
Assignment 3: Learning Tasks, Attendance, & Participation	45 points
Assignment 4: Exit Tickets	27 points
Assignment 5: Microsoft Educator	5 points
Total Points:	185 points

### Student Evaluations of Teaching:

The student evaluation of teaching, or SET, is an online course survey. You are strongly encouraged to complete this form for each course as this feedback helps instructors and administrators improve your class experiences. Towards the end of the course, you will receive email and Blackboard notifications when the evaluations open. Your anonymous and confidential feedback is only shared with instructors after final grades have been submitted. More information about the SET can be found on The Institute of Effectiveness and Planning website at <https://oiep.gmu.edu/set/>

### Course Policies and Expectations

#### Attendance/Participation

Students are expected to (a) attend all classes during the course, (b) arrive on time, (c) stay for the duration of the class time, and (d) complete all assignments. Attendance, timeliness, and professionally relevant- active participation are expected. Attendance and professional participation at all sessions is particularly important. Please notify me in advance by email ([lszupink@gmu.edu](mailto:lszupink@gmu.edu)) Or message me 703-791-9310.

You are expected to be present, prepared, and exhibit professional dispositions for each class session. Activities resulting in points toward your final grade will be completed during class sessions. Quality of product and completion of the activity within class will impact points earned. Points missed due to absences during class activities cannot be made up without instructor approval and quality completion of alternative assignments.

Quality participation includes:

1. Preparing for and attending class in its entirety
2. Thoughtfully and professionally contributing to class discussions and learning tasks
3. Being “present” and digitally thoughtful



## **Late Work**

All assignments are due on or before the dates indicated (at the beginning of class). Consult with me in advance if there is a problem meeting the published due dates. When an extension is agreed to by the instructor, we will collaboratively arrive at a mutually agreed upon solution. Note that an extension on one assignment does not impact the due dates on other assignments. Please retain a copy of your assignments in addition to the ones you submit.

## **Other Requirements**

This is a 3-credit graduate level course. Traditionally, 3-credit courses across a 9-week semester require an average of 45 hours (about 2 days) of in-class time and approximately 90 hours (about 4 days) of independent reading and assignment completion. Be prepared to put that amount of time into this class and plan your schedule accordingly and communicate with the instructor when/if challenges arise.

Some assignments require you to synthesize material from the course and outside sources into coherent statements of your ideas. In such cases, your writing should be databased— meaning that you must support statements and ideas with evidence from these sources, giving these sources credit. The standard format for writing in the field of education is outlined in the *Publication Manual of the American Psychological Association, 6<sup>th</sup> edition* ([www.apastyle.org](http://www.apastyle.org)). Specifically, the last version of your Instructional Program should be written in APA style, including a cover page, running head, pagination, headings (as needed), citations (as needed), and reference pages. The citation for this manual is included in the section entitled “Recommended Texts.” For an online resource, see [www.apastyle.org](http://www.apastyle.org).

It is expected that you know how to paraphrase and cite information appropriately to meet both APA guidelines and to avoid plagiarism. This website provides some useful information on how to avoid plagiarism in your writing: <http://www.plagiarism.org/>

## **Communication**

The most efficient way to contact me is through email [lszupink@gmu.edu](mailto:lszupink@gmu.edu). I check email daily and make every effort to respond in a prompt manner. I will respond within 24 hours-if you have not received a response in this period, please reach out to me again. Please keep in mind that I am a classroom teacher during the day (7:00 am-3:00 pm). On weekends, I will check my GMU account once during each day and will respond to all emails received then. Please alert me through message if you email me so I can respond in a timely fashion.

All assignment expectations and due dates will be reviewed in class and are reflected in the syllabus and course schedule. PLEASE make use of these opportunities to ask for clarification, feedback on drafts, etc. Do not email me an hour before an assignment is due and expect a response. If you would prefer to make alternate arrangements to meet (zoom/phone/before or after class), please do not hesitate to contact me; please be professionally courteous and show-up/communicate if you are unable to show.

**Written Language:** Students at the graduate level are expected to compose with accuracy (grammar, spelling, other mechanics, form, structure, etc.) and at a conceptual level commensurate with advanced degree study. APA Style is the standard format for any written

work in the College of Education and Human Development. If you are unfamiliar with APA format, it would benefit you to purchase the current edition of the Publication Manual of the American Psychological Association. You are required to use APA guidelines for all course assignments as noted in the assignment descriptions. This website links to APA format guidelines: <http://apastyle.apa.org> .

**Oral Language:** Use “person-first language” in class discussions and written assignments (and, ideally, in professional practice). In accordance with terminology choices in the disability community, strive to replace the term “Mental Retardation” with “Intellectual Disabilities” in oral and written communication and to avoid language labels by stating, for example, a “student with disabilities” (SWD) rather than a “disabled student.” Please refer to guidelines for non handicapped language in APA Journals, including information available at: <http://www.apa.org/pi/disability/resources/policy/resolution-ada.pdf> and <http://supp.apa.org/style/pubman-ch03.15.pdf> .

**Inclement Weather**

If classes are cancelled at George Mason University, a message will be posted on the class Blackboard site and all class members will receive an email. Because such cancellations are often at the last minute, it may be difficult to get this message prior to leaving for class. If in doubt, dial the University phone number (703-993-1000) or visit the university website ([www.gmu.edu](http://www.gmu.edu)). I will email you regarding the weather as soon as it is announced. *In the event that Prince William County is closed, and the University remains open, please check your email and blackboard for our alternative instructional plan for the day.*

**Grading**

Grade	Grading	Grade Points	Interpretation
A	94-100	4.00	Represents mastery of the subject through effort beyond basic requirements
A-	90-93	3.67	
B+	85-89	3.33	Reflects an understanding of and the ability to apply theories and principles at a basic level
B	80-84	3.00	
C*	70-79	2.00	Denotes an unacceptable level of understanding and application of the basic elements of the course
F*	<69	0.00	

*Note: Final grades below a B do not count toward endorsement; “F” does not meet requirements of the Graduate School of Education.*

**\*Note:** The George Mason University Honor Code will be strictly enforced. See [Academic Integrity Site \(https://oai.gmu.edu/\)](https://oai.gmu.edu/) and [Honor Code and System \(https://catalog.gmu.edu/policies/honor-code-system/\)](https://catalog.gmu.edu/policies/honor-code-system/). Students are responsible for reading and understanding the Code. “To promote a stronger sense of mutual responsibility, respect, trust, and fairness among all members of the George Mason University community and with the desire for greater academic and personal achievement, we, the student members of the university community, have set forth this honor code: Student members of the George Mason University community pledge not to cheat, plagiarize, steal, or lie in matters related to academic work.” Work submitted must be your own new, original work for this course or with proper citations.

## Professional Dispositions

Students are expected to exhibit professional behaviors and dispositions at all times. See [Policies and Procedures](https://cehd.gmu.edu/students/policies-procedures/) (<https://cehd.gmu.edu/students/policies-procedures/>).

## Class Schedule

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

Day: Wednesdays	Location: BWHS Room 311	Time: 4:45-9:15
4:45-5:45: Teacher directed content delivery 5:45-6:45: Group activity related to new content 6:45-7:15 Break 7:15-8:15 Math Intervention Project* 8:15-9:15 Stations Group Work* *Teacher shares information on one part of the Project; students then have time to research, plan and prep for the completion of that part of the project.		
March 15, 2023	<ul style="list-style-type: none"> <li>• Course Overview</li> <li>• Syllabus Review</li> <li>• Historical Perspective</li> <li>• Constructs &amp; Definitions</li> <li>• <a href="#">NCTM Process Standards</a></li> <li>• Universal Design</li> </ul>	
3.22	<ul style="list-style-type: none"> <li>• <b>Curriculum Development</b> - scope &amp; sequence, lesson plans, instructional methods, &amp; assessment</li> <li>• <b>Feedback</b></li> <li>• <a href="#">VA SOLs</a></li> </ul>	
3.29	<ul style="list-style-type: none"> <li>• <b>Understand:</b> Procedural, Conceptual, and Declarative knowledge</li> <li>• <b>Distinguish:</b> I/SG Activity: Explicit Instruction Lesson</li> <li>• <b>Evaluate:</b> Group Activity w/Feedback</li> </ul>	
4.5	Spring Break	
4.12	<ul style="list-style-type: none"> <li>• <b>Understand</b> foundational knowledge of mathematics</li> <li>• <b>Dr. Busch guest presenter using hands on learning for ELs</b></li> </ul>	
4.19	<ul style="list-style-type: none"> <li>• <b>Model Accommodations &amp; Instructional Considerations:</b> numeracy acquisition, mathematical concepts, mathematical thinking, mathematics vocabulary, calculation, and problem-solving.</li> </ul>	
4.26	<ul style="list-style-type: none"> <li>• <b>Identify &amp; distinguish</b> appropriate data-based modifications and accommodations</li> </ul>	
5.3	<ul style="list-style-type: none"> <li>• <b>Design and demonstrate</b> the application of assistive and instructional technologies to support assessment, planning, and delivery of academic content</li> </ul>	
5.10	<ul style="list-style-type: none"> <li>• <b>Construct and implement</b> individual educational planning and systematic, explicit instruction</li> </ul>	

5.17	<ul style="list-style-type: none"> <li>• <b>Synthesize &amp; appraise</b> the individual abilities, interests, learning environments, and cultural and linguistic factors in the selection, development, and adaptation of learning experiences for students with disabilities who access the general education curriculum.</li> </ul>
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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: See [Core Values](http://cehd.gmu.edu/values/) (<http://cehd.gmu.edu/values/>).

### GMU Policies and Resources for Students

#### Policies

- Students must adhere to the guidelines of the Mason Honor Code. See [Honor Code and System](https://catalog.gmu.edu/policies/honor-code-system/) (<https://catalog.gmu.edu/policies/honor-code-system/>).
- Students must follow the university policy for Responsible Use of Computing. See [Responsible Use of Computing](http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/) (<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 [Disability Services](https://ds.gmu.edu/) (<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 VIA should be directed to [viahelp@gmu.edu](mailto:viahelp@gmu.edu) or <https://cehd.gmu.edu/aero/assessments>.
- Questions or concerns regarding use of Blackboard should be directed to [Blackboard Instructional Technology Support for Students](https://its.gmu.edu/knowledge-base/blackboard-instructional-technology-support-for-students/) (<https://its.gmu.edu/knowledge-base/blackboard-instructional-technology-support-for-students/>).
- [Learning Services \(learningservices@gmu.edu\)](mailto:learningservices@gmu.edu) - Provides a variety of experience-based learning opportunities through which students explore a wide range of academic concerns. Services include support to students with learning differences, individual study strategy coaching, individualized programs of study, and referrals to tutoring resources.

Presentations on a variety of academic topics such as time management, reading, and note taking are available to the university community. The programs are open to all George Mason University students free of charge.

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

As a faculty member, I am designated as a “Non-Confidential Employee,” and must report all disclosures of sexual assault, sexual harassment, 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 the [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 or support measures from Mason’s Title IX Coordinator by calling 703-993-8730, or emailing [titleix@gmu.edu](mailto:titleix@gmu.edu).

**For additional information on the College of Education and Human Development, please visit our website [College of Education and Human Development \(http://cehd.gmu.edu/\)](http://cehd.gmu.edu/).**

## Appendix

### Assessment Rubric(s)

**Scale:**

**A = 5 – 4.5**

**A- = 4.49 – 3.5**

**B = 3.49 – 2.5**

**C = 2.49 – 2.0**

**F = 1.99 – 0**

**Math Intervention Project Rubric (50 Points)**

Criteria	Meets Req. (5)	Approaches Req. (4 / 3 / 2)	Needs Improvement (1)	Incomplete (0)	Weight
<b>Has the student provided information about the child being taught and baseline work samples representing areas of instructional need?</b>	Includes the child's grade level, age, gender, race, academic ability level; and data on the child's level of understanding about the mathematics concept as well as performance in other academic, social, or behavioral areas.	Includes partial information regarding the child's grade level, age, gender, race, academic ability level; and data on the child's level of understanding about the mathematics concept as well as performance in other academic, social, or behavioral areas.	More than two of the required descriptive items about the child are missing.	Criteria not met.	
<b>Has the student selected one age-appropriate K-12 mathematics standard to teach?</b>	One age-appropriate mathematical concept is selected and aligned to a CCSS and/or Virginia SOL for grades K-12. The standard is clearly described in terms of the concepts that will be taught.	One age-appropriate mathematical concept is selected and aligned to a CCSS and/or Virginia SOL for grades K-12. The standard is not fully described in terms of the concepts that will be taught.	One or more mathematics concepts are selected. They may not be age-appropriate or aligned to a CCSS and/or Virginia SOL for grades K-12.	Criteria not met.	
<b>Has the student selected one specific mathematics evidence-based practice?</b>	One evidence-based practice is selected and clearly described in terms of how it will be used to	One evidence-based practice is selected. A thorough explanation of how it will be used to teach the chosen	One strategy is selected. It may not be an evidence-based practice or may be inappropriate for	Criteria not met.	

Criteria	Meets Req. (5)	Approaches Req. (4 / 3 / 2)	Needs Improvement (1)	Incomplete (0)	Weight
	teach the chosen standard/concept.	standard/concept is not fully provided.	teaching the chosen standard/concept.		
<b>Has the student selected one form of assistive technology?</b>	One form of assistive technology is selected and clearly described in terms of how it will be used to teach the chosen standard/concept.	One form of assistive technology is selected. A thorough explanation of how it will be used to teach the chosen standard/concept is not fully provided.	One form of assistive technology is selected. It may be inappropriate for teaching the chosen standard/concept.	Criteria not met.	
<b>Has the student created one distinct lesson that demonstrates all of the stages of the strategy in use?</b>	The student demonstrates all of the stages of the strategy during instruction. The child is progressed through each stage only after they have demonstrated mastery or understanding of the previous stage.	The teacher demonstrates all of the stages of the strategy during instruction. It is unclear whether the child demonstrated mastery or understanding of each stage.	The teacher does not demonstrate all of the stages of the strategy during instruction or does so incorrectly.	Criteria not met.	
<b>Does the lesson incorporate formative assessments for each session?</b>	The student used a variety of formative assessments throughout the lesson. Higher-level questions were used to encourage deeper thinking and responses	The student used a variety of formative assessments throughout the lesson. Questions were used to encourage some analysis and responses from the child to probe for understanding.	The lesson used poorly constructed formative assessments. No questions were used to encourage analysis and responses from the child.	Criteria not met.	

Criteria	Meets Req. (5)	Approaches Req. (4 / 3 / 2)	Needs Improvement (1)	Incomplete (0)	Weight
	from the child to probe for understanding.				
<b>Is there an appropriate reflection and evaluation of the instruction and assessment process?</b>	A detailed analysis/ reflection from the student is provided after the lesson has concluded. The reflection includes a thorough discussion on strategies for teachers to scaffold this lesson for learners of varying abilities moving forward.	An analysis/ reflection from the student is provided after the lesson has concluded. The reflection includes some discussion on strategies for teachers to scaffold this lesson for learners of varying abilities moving forward.	Limited analysis/ reflection from the student is provided after the lesson. No discussion on strategies for teachers to scaffold this lesson is provided.	Criteria not met.	
<b>Is there a graphed representation of student performance depicting 3 Baseline and 7 Intervention sessions?</b>	A graphed representation of student performance depicting 5 baseline and 5 intervention sessions was included.	A graphed representation of student performance was included, but all data points and/or information were not properly depicted.	A poor graphed representation of student performance was provided lacking accuracy and/or specificity.	Criteria not met.	
<b>Does the student meet all criteria of the assignment as it relates to page length, organization, and APA use.</b>	All criteria of the assignment were met.	The majority of criteria of the assignment were met.	Minimal criteria of the assignment were met.	Criteria not met.	
<b>Total:</b>					

**Learning Tasks, Attendance, & Participation Rubric**

45 pts. Possible (5 per class)

	<b>Does not meet Standard (Little or no evidence)</b>	<b>Approaches Standard (Some evidence)</b>	<b>Meets Standard (Clear evidence)</b>	<b>Exceeds Standard (Clear, convincing, and substantial evidence)</b>
	2	3	4	5
<b>Overall Participation</b>	<p>Very few tasks are completed on time AND/OR completed tasks do not demonstrate thoughtful consideration of the content</p> <p>Collaborate sessions, if scheduled, may not have been attended</p> <p>Rarely participates in critical friend(s) group work</p> <p>Feedback may not be meaningful, detailed, and/or constructive</p>	<p>Some tasks for the week are completed on time AND/OR demonstrate thoughtfulness</p> <p>Collaborate sessions, if scheduled, were attended and student was somewhat engaged with peers and instructor</p> <p>Sometimes participates in critical friend(s) group work.</p> <p>Feedback is not always meaningful, detailed, and/or constructive.</p>	<p>Most tasks for the week are completed on time and demonstrate thoughtfulness</p> <p>Collaborate sessions, if scheduled, were attended and student was often engaged with peers and instructor</p> <p>Often participates in critical friend(s) group work and provides meaningful, detailed, and constructive feedback, OR</p> <p>Consistently participates in critical friend(s) group, but feedback is not always meaningful,</p>	<p>All tasks for the week are completed on time and demonstrate thoughtfulness</p> <p>Collaborate sessions, if scheduled, were attended and student was consistently and actively engaged with peers and instructor</p> <p>Consistently participates in critical friend(s) group work.</p> <p>Meaningful, timely, detailed, &amp; constructive feedback provided to peer(s) in critical friend(s) group.</p>



			detailed, or constructive	
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**Exit Ticket**

27 pts. Possible (3 per class)

	<b>Does not meet Standard (Little or no evidence)</b>	<b>Meets Standard (Clear evidence)</b>	<b>Exceeds Standard (Clear, convincing, and substantial evidence)</b>
	<b>1</b>	<b>2</b>	<b>3</b>
	<b>Completed tasks do not demonstrate thoughtful consideration of the content</b>	<b>Completed tasks demonstrate thoughtful consideration of the content</b>	<b>Completed tasks demonstrate thoughtful consideration of the content and original thought/ unique perspective</b>

**Stations Activity**  
28 pts. Possible

	<b>Does not meet Standard (Little or no evidence)</b>	<b>Approaches Standard (Some evidence)</b>	<b>Meets Standard (Clear evidence)</b>	<b>Exceeds Standard (Clear, convincing, and substantial evidence)</b>
	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

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- Will be generated as a class, with instructor final approval.  
**Consumer Applications Evaluation Paper**  
**30 pts. Possible**

	<b>Does not meet Standard (Little or no evidence)</b>	<b>Approaches Standard (Some evidence)</b>	<b>Meets Standard (Clear evidence)</b>	<b>Exceeds Standard (Clear, convincing, and substantial evidence)</b>
	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

- Will be generated as a class, with instructor final approval.