



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

Spring 2022
EDAT 524 001: Universal Design for Learning
CRN 21665, 3 – Credits

Instructor: Dr. Shalu Rana	Meeting Dates: 01/03/2022 - 02/27/2022
Phone: Posted on Blackboard	Meeting Day(s): Online
E-Mail: srana8@masonlive.gmu.edu	Meeting Time(s): Asynchronous
Office Hours: By appointment	Meeting Location: NA
Office Location: Online	Other Phone: NA

*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

Describes the foundations and principles of Universal Design for Learning (UDL). Focuses on teaching students with various disabilities including those with learning disabilities from preschool to postsecondary education implementing technology-based and other UDL strategies. Applies UDL principles to the design of accessible instructional materials. Students have the opportunity to develop and implement UDL lesson plans. Offered by [Graduate School of Education](#). May not be repeated for credit.

Advising Contact Information

Please make sure that you are being advised on a regular basis as to your status and progress through your program. Mason M.Ed. and Certificate teacher candidates/students should contact Student Services at (703) 348-5006 (Option 2) for assistance. All other teacher candidates/students should refer to their faculty advisor.

Course Instructional Method

EDAT 524 is an asynchronous online course. Using Blackboard, students are expected to complete assignments weekly and be engaged in course activities throughout the semester.

Course Delivery Method

EDAT 524 is an asynchronous online course. Using Blackboard, students are expected to complete assignments weekly and be engaged in course activities throughout the semester.

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

This course will be delivered online (76% or more) using **asynchronous** format via Blackboard Learning Management system (LMS) housed in the MyMason portal. You will log in to the Blackboard (Bb) course site using your Mason email name (everything before @masonlive.gmu.edu) and email password. The course site will be available in accordance with the posted start date.

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 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: https://help.blackboard.com/Learn/Student/Getting_Started/Browser_Support#supported-browsers
- To get a list of supported operation systems on different devices see: https://help.blackboard.com/Learn/Student/Getting_Started/Browser_Support#tested-devices-and-operating-systems
- 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 Blackboard Collaborate web conferencing tool (if needed). Blackboard Collaborate Ultra will be used for optional office hours.
- 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: <https://get.adobe.com/reader/>
- Windows Media Player: <https://support.microsoft.com/en-us/help/14209/get-windows-media-player>
- Apple Quick Time Player: www.apple.com/quicktime/download/

Expectations

- Course Week: Because asynchronous courses do not have a “fixed” meeting day, our week will start on Monday at 11:59 pm and finish on Monday 11:59 pm EST. Our course week will begin on the day that our synchronous meetings take place 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 2 times per week.
- 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. 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.
- 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:**

Online learners who require effective accommodations to insure accessibility must be registered with George Mason University Disability Services.

Learner Outcomes

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

1. Define similarities and differences in human development as well as major issues and concerns for individuals with disabilities, including those with disabilities to participate in general education curriculum.
2. Identify and understand different principles of UDL.
3. Describe and discuss no technology to high technology tools and strategies available for multiple means of representation, engagement, and expression in the general academic curriculum.
4. Identify a repertoire of evidence-based UDL resources to use with students with various disabilities in order to make the curriculum more accessible.
5. Develop a lesson plan selecting instructional materials that meet the standards of UDL as well as individual and environmental needs, personal interests, preferences, values, and cultural influences.
6. Describe and discuss the standards of UDL to be used for monitoring outcomes of interventions and reevaluations.

Course Relationship to Program Goals and Professional Organizations

This course is part of the George Mason University, Graduate School of Education (GSE), Assistive Technology Program. The Assistive Technology Program has developed program specific standards in accordance with NCATE requirements. The Assistive Technology Program Standards incorporate several elements within the professional standards from the Council for Exceptional Children (CEC), while also expanding upon them to meet the specific needs related to assistive technology. The primary AT Program standards that will be addressed in this class include the following: Standard 2: Knowledge and Skills and Standard 4: Practical Experience. *NOTE: NCATE Assessments (in many but not all courses) may address additional AT Program standards.

Required Textbooks

Nelson, L. L. (2021). *Design and deliver. Planning and teaching using Universal Design for Learning* (2nd ed.). Baltimore: Paul S. Brookes

Recommended Textbooks

American Psychological Association. (2010). *Publication manual of the American Psychological Association* (6th ed.). Washington, DC: Author.

Hall, T. E., Meyer, A., & Rose, D. H. (2012). *Universal Design for Learning in the classroom: Practical applications*. New York, NY: The Guilford Press. ISBN-10: 1462506313

Meyer, A., Rose, D.H., & Gordon, D. (2014). *Universal design for learning: Theory and practice*. Wakefield, MA: CAST Professional Publishing.

Additional Readings

Additional readings relevant to the Universal Design for Learning research and practice will be provided by the instructor. Readings may include chapters, journal articles, web sites, video clips, audio clips (e.g., podcasts), and slide shows.

Course Performance Evaluation

Students are expected to submit all assignments on time in the manner outlined by the instructor (e.g., Blackboard, Tk20, hard copy).

Tk20 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 Tk20 (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 Tk20.

For EDAT 524, the required PBA is (NO ASSESSMENT REQUIRED FOR THIS COURSE). Please check to verify your ability to upload items to Tk20 before the PBA due date.

Assignments and/or Examinations

Below is a brief description of the course assessments. More information will be provided prior to each activity/assignment.

Performance-based Assessment (Tk20 submission required)

None

College Wide Common Assessment (TK20 submission required)

None

Performance-based Common Assignments (No Tk20 submission required)

UDL Instructional Plan (140 points)

Students will identify a classroom/environment (K-12, postsecondary, online, professional development) to observe and evaluate the existing curriculum/lesson plan/training using UDL standards. Video case studies will be offered if classroom observations are not possible. Students will create a UDL instruction plan for designing and intentionally implementing UDL principles

within an existing curriculum/lesson plan. The UDL instructional plan will include the following:

- a. Curriculum/Lesson Plan/Training Overview
Students will provide a description of the curriculum/lesson plan/training. The description should include the goals, instructional elements and activities as well as the explanation of the environment in which the curriculum/lesson plan/training takes place.
- b. Learner Characteristics & Barriers
Students will provide a rationale for selecting the UDL guidelines and standards to match the characteristics of learners. A listing of the learners' prerequisite skills as well as the needs they have for potentially using UDL strategies will be outlined.
- c. UDL Design Plan
Students will identify the UDL standards addressed in an existing curriculum/lesson plan/training as well as propose additional UDL strategies that could enhance the learning opportunities for identified learners. The plan should integrate a variety of instructional and assistive technology to offer multiple means of engagement, representation, and expression for students accessing general education curriculum in K-12 or postsecondary settings.
- d. Demonstration
Candidate records a 3-5 minutes video documenting that the candidate can demonstrate a portion of the UDL Plan. The video will accompany the UDL Plan write-up as evidence that the candidate has proficiency in the use of the UDL principles and strategies.
- e. Reflection
Candidate provides a reflection on the UDL Plan. The reflection will also include recommendations for resources and potential professional development opportunities for the UDL Plan implementer. Potential impact that the UDL strategies might have on individuals with various learning preferences and needs will also be discussed.

Other Assignments

Learning Module Assignments and Discussions (140 points/5-10 points each)

Students will participate in various activities in order to explore various applications of Universal Design for Learning. Activities will include introduction forum, various technology tools explorations, UDL evaluation project, as well as others. Detailed descriptions and step-by-step instructions for each module activities will be provided by the instructor and posted in the corresponding Learning Module. Students will also complete class textbook and article readings, watch various educational and inspirational videos, and review specific websites during each Learning Module. In which module, students will be asked to participate in class and group discussion boards. Students will be asked to make **ONE** thoughtful post (e.g., connecting the information from the module to their personal experiences and ideas) as well as to provide a meaningful response to at least **TWO** of their classmates. The feedback may focus on ways to improve/enhance the post ideas; it may provide ideas on further ways to use assistive/instructional technology; it may describe real life situations when these or similar ideas have been used as well as their outcomes.

UDL Research Review (40 points)

Students will find and summarize a journal article that explores the effectiveness and applications of Universal Design for Learning in various environments. Students may use UDL-IRN Research database to find article of their choice. Papers chosen for this requirement must be from peer-reviewed published journals (no ERIC documents!) and should be data-based examinations of issues relevant to the UDL implementation in various environments (e.g., K-12, postsecondary, professional environments.) A research study includes a “methods” section and a “results” section. The purpose of this assignment is **twofold: first**, to identify research-based findings that are relevant to the outcomes of the UDL principles and **second**, to critically explore and summarize the “state of the practice” of UDL.

UDL Resource Notebook (80 points)

Throughout the semester, students will compile UDL resources of their choice that would be useful for teaching/working with a target population. Students will research and collect resources in various categories to address abilities and needs of the target population. Students may choose to conduct this assignment individually or in groups. All resources will be compiled in one electronic resource notebook. The electronic resource notebook may be organized by content areas and may be presented in written, multimedia presentation, or video format. The following information should be included about each resource:

- Name of program/app/resource
- Website of vendor (if applicable)
- Brief description of software/app/tool
- Specific UDL guidelines and checkpoints it supports
- Example of how a tool can be implemented to engage learners, can offer a different representation of information, or can allow learners to express their knowledge

Course Policies and Expectations

Attendance/Participation

This class does not require any face-to-face or synchronous meetings. However, 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. A series of UDL Google Hangouts will be scheduled during the semester in order to facilitate discussions about UDL, but the attendance will be optional. In addition, optional Office Hours will be offered via Blackboard Collaborate Ultra.

Late Work

All activities must be submitted via Blackboard *on or before* the due date. **In fairness to students who make the effort to submit work on time, points will be deducted from your grade for late assignments. Assignments will not be accepted more than 3 days late unless prior arrangements with the instructor have been made.** Allow additional time for as well as plan for additional participation during activities that require constructive feedback.

Grading Scale (traditional rounding principles apply)

- 93-100% = A
- 90-92% = A-
- 87-89% = B+
- 83-86% = B
- 80-82% = B-
- 70-79% = C
- < 69% = F

Evaluation will be based upon a point system. The point value for each assignment is as follows:

Learning Module Activities and Reflections	140 (35%)
UDL Research Review	40 (10%)
UDL Resource Notebook.....	80 (20%)
UDL Instructional Plan Project.....	140 (35%)
TOTAL POINTS.....	400 (100%)

*Note: The George Mason University Honor Code will be strictly enforced. 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 or with proper citations (see <https://catalog.gmu.edu/policies/honor-code-system/>).

Professional Dispositions

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

Class Schedule

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

Learning Module	Topic	Textbook Readings*, Weekly Activities & Assignments Due
Learning Module 1	Foundations and principles of UDL	Nelson (2021) - Chapter 1 Rose, Hasselbring, Stahl, & Zabala (2005) Learning Module 1 Activities
Learning Module 2	UDL standards and guidelines for research and practice	Nelson (2021) - Chapter 2 Rao & Meo (2016) Learning Module 2 Activities

Learning Module	Topic	Textbook Readings*, Weekly Activities & Assignments Due
Learning Module 3	Multiple means of representation: Providing access to print text (adapting books and instructional materials to ensure accessibility)	Nelson (2021) - Chapter 4 Narkon & Wells (2013) Learning Module 3 Activities
Learning Module 4	Multiple means of action and expression: Enhancing writing process for individuals with disabilities	Nelson (2021) - Chapter 5 Wanderman (n.d.) Webinar by AbleNet: All about Computer Access Learning Module 4 Activities UDL
Learning Module 5	Multiple means of engagement: Enhancing content instruction	Nelson (2021) - Chapter 3 Rose, Gravel, & Domings (2010) OPTIONAL: Obukowicz (2009) Learning Module 5 Activities Research Review Due
Learning Module 6	Universal Design for Learning in postsecondary/higher and online education	Burgstahler & Cory (2010) - Chapter 3 Novak & Thibodeau (2016) – Chapter 2 OPTIONAL: Rao, Ok, & Bryant (2014) Learning Module 6 Activities UDL Resource Notebook Due
Learning Module 7	Universal Design for Learning and student progress monitoring	Nelson (2021) – Chapters 7 Novak (2014) – Chapter 9 Learning Module 7 Activities UDL Instructional Plan Draft & Peer Feedback Due
Learning Module 8	Designing UDL curriculum	Nelson (2021) – Chapters 6 Meyer, Rose, & Gordon (2014) – Chapter 6 OPTIONAL: Lowrey, Hollingshead, Howery, & Bishop (2017) Learning Module 8 Activities UDL Instructional Plan Due

Core Values Commitment

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

GMU Policies and Resources for Students

Policies

- Students must adhere to the guidelines of the Mason Honor Code (see <https://catalog.gmu.edu/policies/honor-code-system/>).

- Students must follow the university policy for Responsible Use of Computing (see <http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/>).
- Students are responsible for the content of university communications sent to their Mason email account and are required to activate their account and check it regularly. All communication from the university, college, school, and program will be sent to students **solely** through their Mason email account.
- Students with disabilities who seek accommodations in a course must be registered with George Mason University Disability Services. Approved accommodations will begin at the time the written letter from Disability Services is received by the instructor (see <http://ods.gmu.edu/>).
- Students must silence all sound emitting devices during class unless otherwise authorized by the instructor.

Campus Resources

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

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

Appendix

Assessment Rubric(s)

Rubric for UDL Instructional Plan Project

The instructor will evaluate your final project that is submitted at the end of the course using the rubric below.

	Exceeds Expectations	Meets Expectations	Does Not Meet Expectations
Curriculum/Lesson Plan Overview	19-20 pts	17-18 pts	0-16 pts
AT Program Standard 2	Candidate describes an existing curriculum/lesson plan that is offered to learners with various needs including those with disabilities	Candidate describes an existing curriculum/lesson plan in details including goals,	Candidate fails to describe an existing curriculum/lesson plan that is offered to learners with various

	including goals, instructional elements and activities, as well as the environment in which it takes place.	instructional elements and activities.	needs including those with disabilities.
Learner Characteristics and Barriers AT Program Standard 1	19-20 pts Candidate identifies specific characteristics of users who could benefit from the UDL strategies based on their understanding of exceptional conditions or other human factors. Candidate considers how issues of human diversity can impact individuals, families, communities, and cultures, and how these complex human issues can interact with issues in the delivery of UDL curriculum.	17-18 pts Candidate identifies specific characteristics of users who could benefit from the UDL strategies. Candidate considers how issues of human diversity can impact individuals, families, communities, and cultures, and how these complex human issues can interact with issues in the delivery of UDL curriculum.	0-16 pts Candidate fails to identify specific and related characteristics of users who could benefit from UDL strategies and/or fails to consider how issues of human diversity can impact individuals, families, communities, and cultures, and how these complex human issues can interact with issues in the delivery of UDL curriculum.
UDL Design Plan AT Program Standards 2 & 3	56-60 pts Candidate identifies the UDL standards addressed in an existing curriculum/lesson plans. Candidate identifies and match additional UDL strategies based on individual and environmental needs while also considering personal interests, preferences, values and cultural influences. Candidate develops and report plans to implement and monitor	47-55 pts Candidate identifies the UDL standards addressed in an existing curriculum/lesson plans. Candidate identifies and match additional UDL strategies based on individual and environmental needs. Candidate develops and report plans to implement and monitor outcomes of interventions and reevaluate and adjust the system as needed.	0-46 pts Candidate does not identify the UDL standards addressed in an existing curriculum/lesson plans. Candidate fails to identify and match additional UDL strategies based on individual and environmental needs. Candidate's plans to implement and monitor outcomes of interventions are limited and do not necessarily plan to

	outcomes of interventions and reevaluate and adjust the system as needed. Candidate utilizes evidence-based UDL strategies to develop personalized supports for individuals with various abilities, needs, and learning preferences.	Candidate utilizes evidence-based strategies to develop personalized supports for individuals with exceptional needs.	reevaluate and adjust the system as needed. Candidate fails to utilize evidence-based strategies to develop personalized supports for individuals with exceptional needs.
Demonstration AT Program Standard 2 and 4	19-20 pts Candidate is knowledgeable of and demonstrates proficiency in use of tools and evidence-based strategies to develop universally designed environments	17-18 pts Candidate is knowledgeable of and demonstrates proficiency in use of UDL strategies and tools.	0-16 pts Candidate does not demonstrate knowledgeable of and proficiency in use of UDL strategies and tools.
Reflection & Impact AT Program Standard 1 and 5	19-20 pts Candidate promotes and advocate for the benefits of continued implementation of UDL tools and strategies for individuals with various abilities, needs, and learning preferences. Candidate identifies ongoing professional development to acquire knowledge and skills about new developments in UDL, which may include participation in activities of professional organizations relevant	17-18 pts Candidate promotes and advocate for the benefits of continued implementation of UDL tools and strategies for individuals with various abilities, needs, and learning preferences. Candidate identifies ongoing professional development opportunities to acquire knowledge and skills about new developments in UDL. Candidate discusses the impact UDL can have on individuals	0-16 pts Candidate fails to promote and advocate for the benefits of continued implementation of UDL tools and strategies for individuals with various abilities, needs, and learning preferences. Candidate fails to identify specific and relevant professional development opportunities to acquire knowledge and skills about new developments in UDL.

	<p>to the field of assistive technology.</p> <p>Candidate discusses the impact UDL can have on individuals with various abilities, needs, and learning preferences and their families within various diverse cultures and communities.</p>	<p>with various abilities, needs, and learning preferences within various cultures and communities.</p>	<p>Candidate provides a limited discussion that does not specifically address the impact UDL can have on individuals with various abilities, needs, and learning preferences within various cultures and communities.</p>
Total:	140 possible		