



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

Summer 2014

EDAT 525 B01: Software and Mobile Applications for Individuals with
Disabilities

CRN: 41688, 3 - Credits

Instructor: Dr. Yoosun Chung	Meeting Dates: 6/2/2014 - 7/22/2014
Phone: (703) 988-3486 (text-relay-service)	Meeting Day(s): Asynchronous
E-Mail: ychung3@gmu.edu	Meeting Time(s): Asynchronous
Office Hours: by appointment	Meeting Location: NET

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

Instructional Method

EDAT 525 is an asynchronous online course. Using Blackboard, students are expected to complete assignments weekly and be engaged in course activities throughout the semester.

Course Description

Provides overview with software, mobile applications, and accessibility features. Identifies design features to meet individual's special needs; provides hands-on experiences with the range of software and mobile applications that incorporate evidence-based strategies for individuals with disabilities across environments, settings and the life span. Field experience may be required.

Prerequisite(s): None

Co-requisite(s): None

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 students should contact the Special

Education Advising Office at (703) 993-3670 for assistance. All other students should refer to their faculty advisor.

DELIVERY METHOD:

This course will be delivered online using an **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 (6/3).

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/>
 - Windows Media Player: <http://windows.microsoft.com/en-US/windows/downloads/windows-media-player>
 - Apple QuickTime Player: www.apple.com/quicktime/download/

EXPECTATIONS:

- **Course Week:** Refer to the asynchronous bullet below if your course is asynchronous or the synchronous bullet if your course is synchronous.
 - **Asynchronous:** Because online courses do not have a “fixed” meeting day, our week will **start** on Tuesday, and **finish** on Monday.
 - **Synchronous:** Our course week will begin on the day that our synchronous meeting takes place as indicated on the Schedule of Classes.
- **Log-in Frequency:** Refer to the asynchronous bullet below if your course is asynchronous or the synchronous bullet if your course is synchronous.
 - **Asynchronous:** Students must actively check the course Blackboard site and their GMU email for communications from the instructor, at a minimum this should be 2 times per week.
 - **Synchronous:** Students must log-in for all scheduled online synchronous meetings. In addition, students must actively check the course Blackboard site and their GMU email for communications from the instructor, at a minimum this should be 2 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. Contact ITU (<http://itservices.gmu.edu/help.cfm>) at (703) 993-8870 or support@gmu.edu.
- **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 three 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.

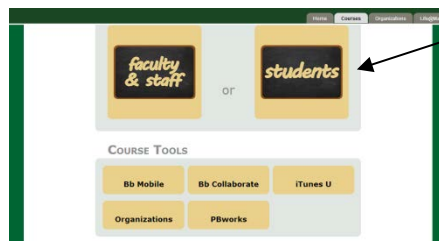
Netiquette: Our goal is to be **collaborative**, not combative. Experience shows that even an innocent remark in the online environment can be misconstrued. I suggest that you always re-read your responses carefully before you post them to encourage others from taking them as personal attacks. **Be positive 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.

Nature of Course Delivery

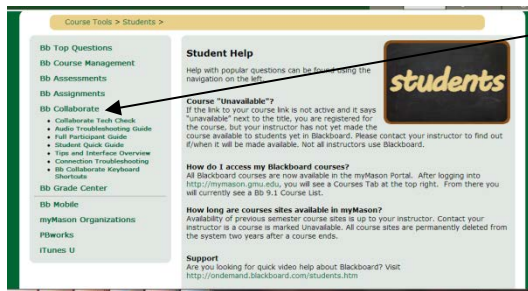
The delivery of this course combines methods of lecture, discussion, independent study, student group presentations, writing, and assignments through only the asynchronous online medium. Access to MyMason and GMU email are required to participate successfully in this course. MyMason can be found at <http://mymason.gmu.edu>.

Students must come to class prepared to participate in the online format. Please make sure to update your computer and prepare yourself to begin using the online format **BEFORE** the first day of class. The IT Support Center can be found online at: <http://itservices.gmu.edu/>

Navigate to the Student Support page on your MyMason homepage:



You may have to choose students link and choose the Students box as shown in picture or it may take you right to the next screen.



In the menu bar to the left you will find all the tools you need to become familiar with for this course. Take time to learn each. Make sure you run a system check a few days before class. To do this, click on Bb Collaborate and a dropdown menu will appear. Become familiar with the attributes of Collaborate and online learning.

Learning activities include the following:

1. Learning module lectures, discussion, and participation
2. Software and hardware demonstrations
3. Group and independent laboratory exploration activities
4. Direct AT service interactions
5. Class presentations

PROFESSIONAL STANDARDS

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

Candidates are knowledgeable of legislative mandates and governmental regulations related to technology and their implications for individuals with exceptional needs. Candidates can identify a range of funding sources and processes of acquisition of assistive technology devices and services. Candidates are knowledgeable of and demonstrate proficiency in use of a range of assistive technology tools. In conjunction, candidates possess a repertoire of evidence-based strategies to develop personalized supports for individuals with exceptional needs across environments, settings, and the life span. Candidates continuously broaden and deepen their professional knowledge, and expand their expertise with assistive technology tools and strategies.

Standard 4 Practical Experience

Candidates apply knowledge and skills to identify user needs and customize assistive technology tools and strategies that are meaningful and useful. Candidates provide customized assistive technology training services to individuals with exceptional needs, their families, and/or their community of support. Candidates develop and customize individualized technology-based solutions to address exceptional needs.

*NOTE: NCATE Assessments (in many but not all courses) may address additional AT Program standards.

Field Experience Requirement

A Field Experience MAY BE a part of this course. Field Experiences may include observations, interviews, and/or trainings within community environments. All students who are directly interacting with individuals as part of their field experience must complete the CEHD Field Experience Form.

REQUIRED PROCEDURE FOR ALL STUDENTS ENROLLED IN THIS COURSE: Complete the online field experiences form [<http://cehd.gmu.edu/endorse/ferf>] at the beginning of the semester (if not before) and complete the information requested **REGARDLESS** if you need assistance in 'finding' an individual for the project/case study or not. This information is required by the state.

OPTION 1: Request a **SCHOOL-BASED** placement online through the Clinical Practice Office [NOT LIKELY for EDAT courses]

- Complete the online request form and indicate that you need a field placement. It is important that you do this within the first two weeks of classes so that the field placement office has sufficient time to find a placement for you.

OPTION 2: Arrange for **YOUR OWN** placement **AND** complete the online field placement form indicating that you do not need assistance finding a placement.

a. I work in a school setting and would like to complete my course assignment in my school or with one of my own students.

→Although you are already a school employee, you should request permission from your principal **BEFORE** you begin your assignment.

b. I don't work in a school setting, but I have a friend or classmate who does and I would like to complete my course assignment in their school or with one of their own students.

→You need to ask the **SCHOOL EMPLOYEE** to request permission from the principal **BEFORE** you begin your assignment. (The guest GMU student should **NOT** contact the principal directly). The school employee needs to send an email that indicates principal consent to the course instructor so it can be forwarded to the CEHD field experience office at fieldexp@gmu.edu.

c. I know a student/client outside of a school setting that I would like to work with for the assignment.

→If applicable, you need to obtain consent from the parent of a minor or the guardian of a protected adult and forward written consent to the CEHD field experience office at fieldexp@gmu.edu.

Learner Outcomes

- Define legislative mandates and governmental regulations related to accessibility of software and mobile applications.
- Identify built-in accessibility features available in a variety of stationary and mobile platforms.
- Gather and organize software and mobile applications resources.
- Identify software and mobile applications features for individuals with disabilities.
- Design and create a software program or mobile application prototype with accessibility features supported by the rationale for the prototype and its features.
- Propose a plan for continuous data collection to evaluate the outcomes, reevaluation, and adjusting the system as needed.

Required Textbooks

Ault, M., & Bausch, M. (2012), *Apps for all students: A teacher's desktop guide*. Arlington, VA: TAM CEC

Digital Library Option

The Pearson textbook(s) for this course **may be** available as part of the **George Mason University Division of Special Education and disAbility Research Digital Library**. Please note that not all textbooks are available through this option. Visit the links below before purchasing the digital library to ensure that your course(s) text(s) are available in this format. The division and Pearson have partnered to bring you the Digital Library; a convenient, digital solution that can save you money on your course materials. The Digital Library offers you access to a complete digital library of **all Pearson textbooks** and MyEducationLabs used across the Division of Special Education and disAbility Research curriculum at a low 1-year or 3-year subscription price. Access codes are available in the school bookstore. Please visit <http://gmu.bncollege.com> and search the ISBN. To register your access code or purchase the Digital Library, visit:

<http://www.pearsoncustom.com/va/gmu/digitallibrary/education/index.html>

- 1 year subscription \$200 ISBN-13: 9781269541411
- 3 years subscription \$525 ISBN-13: 9781269541381
- Individual e-book(s) also available at the bookstore link above or at <http://www.pearsoncustom.com/va/gmu/digitallibrary/education/index.html>

Additional Readings

Readings relevant to the evaluation of software and mobile applications are provided by the instructor, including research articles and links to vendor websites. All course materials are available on the Blackboard site.

Course Relationships 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.

GMU POLICIES AND RESOURCES FOR STUDENTS:

- a. Students must adhere to the guidelines of the George Mason University Honor Code [See <http://oai.gmu.edu/the-mason-honor-code/>].
- b. Students must follow the university policy for Responsible Use of Computing [See <http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/>].
- c. 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.
- d. 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/>].
- e. 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/>].
- f. Students must follow the university policy stating that all sound emitting devices shall be turned off during class unless otherwise authorized by the instructor.
- g. 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/>].

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. [See <http://cehd.gmu.edu/values/>]

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

SOME ADDITIONAL UNIVERSITY REQUIREMENTS

- a. Diversity: George Mason University promotes a living and learning environment for outstanding growth and productivity among its students, faculty and staff. Through its curriculum, programs, policies, procedures, services and resources, Mason strives to maintain a quality environment for work, study and personal growth.
- b. Other Considerations: If there are any issues related to religious holidays, please inform the instructor the first week of class.
- c. Student Privacy: The Family Educational Rights and Privacy Act of 1974 (FERPA), also known as the "Buckley Amendment," is a federal law that gives protection to student educational records and provides students with certain rights. [See <http://registrar.gmu.edu/privacy>]. FERPA protects your privacy and keeps your information confidential.

Course Policies & Expectations

Attendance.

EDAT 525 is an asynchronous online course. All course materials are available on the course Blackboard site, <http://mymason.gmu.edu>. Using Blackboard, students are expected to complete assignments weekly and be engaged in course activities throughout the semester.

Late Work.

In fairness to students who make the effort to submit assignments on time, there will be a 10% cost reduction per day for late assignments. (For example, a 10 point assignment will lose 1 point per day while a 40 point assignment will lose 4 points per day). At the instructor's discretion, students may be given the opportunity to resubmit an assignment. Resubmitted assignments are not eligible for full credit and a response cost of 10 percent will be assessed. Please note that assignments worth 1 point that are submitted late will receive a score of 0.

Course Expectation.

- It is expected that students have continual access to a high-speed Internet connection

and an active GMU email account for the duration of this course.

- Students are expected to be familiar with Blackboard features including downloading materials and submitting assignments. Students are expected to know their Blackboard username and password and to actively monitor the email account that is currently registered in Blackboard. Students who are experiencing problems using the Blackboard system must contact the instructor prior to the date an assignment is due for assistance.
- Please type ALL assignments unless otherwise noted. Please contact the instructor if you are using a word processing program other than Microsoft Word.
- All assignments must be posted to the Discussion Board or submitted through the "Assignment" session in Blackboard by 11:59 pm on the day the assignment is due (unless otherwise noted by the instructor) to be considered for full credit. Please note that Blackboard places a timestamp on all submitted material. If Blackboard is down for any reason at the time an assignment is due, you should email a copy of your assignment to the instructor. However, you should only email the instructor your assignment if Blackboard is down. If you not available on the day an assignment is due, you are expected to submit that assignment early to be considered for full credit.
- All assignments should reflect graduate-level spelling, syntax, and grammar and will be graded accordingly. If you experience difficulties with the writing process you will need to document your work with the GMU Writing Center during this course to improve your skills.
- All references including Online references must be cited in proper APA format to avoid plagiarism (cut&paste is easy to do from the Internet).

Instructor – Student Communication.

The easiest and best way to contact me is through email. I will respond to your emails within 48 hours, if not sooner, on weekdays. IF I will be away from email for more than one day, I will post an announcement on Blackboard.

TECHNOLOGY REQUIREMENTS

Hardware:

You will need access to a Windows or Macintosh computer with at least 2 GB of RAM and access to a fast and reliable broadband internet connection (e.g., cable, DSL). A larger screen is recommended for better visibility of course material. You will need speakers or headphones to hear recorded content and a headset with a microphone is recommended for the best experience. For the amount of Hard Disk Space required to take a distance education course consider and allow for:

1. the storage amount needed to install any additional software and
2. space to store work that you will do for the course.

If you are considering the purchase of a new computer, please go to http://itservices.gmu.edu/services/view-service.cfm?custome1_dataPageID_4609=6233 to see recommendations.

Software:

This course uses Blackboard as the learning management system. You will need a browser and operating system that are listed compatible or certified with the Blackboard version available on the myMason Portal. See [supported browsers and operating systems](#). Log in to [myMason](#) to access your registered courses. Some courses may use other learning management systems. Check the syllabus or contact the instructor for details. Online courses typically use [Acrobat Reader](#), [Flash](#), [Java](#) (Windows), [Windows Media Player](#), and [QuickTime](#). Your computer should be capable of running current versions of those applications. Also, make sure your computer is protected from viruses by downloading the latest version of Symantec Endpoint Protection/Anti-Virus software for free at <http://antivirus.gmu.edu>.

Note: If you are using an employer-provided computer or corporate office for class attendance, please verify with your systems administrators that you will be able to install the necessary applications and that system or corporate firewalls do not block access to any sites or media types.

TaskStream Submission

Every student registered for any Special Education course with a required performance-based assessment is required to submit this assessment, (NO ASSESSMENT REQUIRED FOR THIS COURSE) (regardless of whether a course is an elective, a onetime course or part of an undergraduate minor). Evaluation of the performance-based assessment by the course instructor will also be completed in TaskStream. Failure to submit the assessment to TaskStream will result in the course instructor reporting the course grade as Incomplete(IN). Unless the IN grade is changed upon completion of the required TaskStream submission, the IN will convert to an F nine weeks into the following semester.

If you have never used TaskStream before, you MUST use the login and password information that has been created for you. This information is distributed to students through GMU email, so it is very important that you set up your GMU email. For more TaskStream information, go to <http://cehd.gmu.edu/api/taskstream>.

Grading Scale

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

Weekly Online Modules.....	50
Software Program/App Development	20
Software Program/App Assessment	30

TOTAL POINTS.....100

The following grading scale will be used at the Graduate level:

95-100% = A
90-94% = A-
87-89% = B+
83-86% = B
80-82% = B-
70-79% = C
< 70% = F

Assignments

Performance-based Assessment (TaskStream submission required).

No NCATE/TaskStream assignment for this course.

Performance-based Common Assignments (No TaskStream submission required).

Courses with multiple sections often require "common" assignments across sections to ensure consistency in instruction and learning. This course does not require the use of a common assignment(s). All course assignments are outlined in the *Other Assignments* section.

Other Assignments.

Weekly Online Modules (50 points) – Due Monday of that week

Students must access online class on Blackboard weekly and complete posted activities for all classes. Posted activities will include PowerPoint presentations of content, Internet search/research assignments, video exploration and viewing, community exploration, response tasks and construction activities. All weekly activities are due by Monday, 11:59pm of that week. Note: Some activities are required to interact with classmates. In this case, the original posting should be posted by Saturday, 11:59pm of that week. The responses to other classmates should be posted by Monday, 11:59pm of that week.

Software Program/App Development (20 points) – Due July 7

Students will design and develop a software program/app that is appropriate for individuals with disabilities. Students can choose to use one of several authoring programs, which include PowerPoint, Pixie 3, Clicker 6, Boardmaker Studio and Classroom Suite 4. Software programs/apps will be evaluated based on layout quality and consistency, program content, appropriate use of student and teacher features, and accessibility through alternate access methods. Students will also create an offline activity that can be used in conjunction with the software program. The operation of software/app can be simulated using PowerPoint templates with interactive components. The final product will include: (a) rationale/storyboard; (b) software program/app; (c) offline activity; and (d) presentation.

Software Program/App Assessment (30 points) – Due July 22

(Performance Based Assessment)

Students will identify an individual with a disability to conduct a software/app assessment. Based on the individual's learning needs, students will select 2-3 pieces of software/app to use with the individual over a period of time. Using a developed data collection method, students will instruct, observe, and evaluate the individual using the software program/app. Students will then write a brief assessment report identifying the strengths and limitations of the software programs/app (including access methods, data reporting options, and other software features). The report will also include 2-3 recommendations for other software programs that would be appropriate for the individual. The recommendations should include a brief program description, vendor information, and price. The final project will also include a detailed plan for data collection in order to monitor the outcomes, reevaluate, and adjust the software/app features.

a. Software/App Overview

Candidate provides a description of the pre-selected software and/or mobile apps. The description should include the purpose of the software/apps, their features, and their vendor/contact information.

b. User Characteristics & Needs

Candidate provides a rationale for selecting the user/individual(s) for who they are designing the training. A listing of the user's prerequisite skills as well as the needs they have for potentially using the AT will be outlined. Consideration of diverse needs of both the user in training as well as those that may be affected by the training should be addressed.

c. Evaluation Trials

Candidate conducts evaluation trials with the individual using identified software/apps to determine technology potential. Data sheets noting user/client trial abilities/limitations while using technologies, preferences for specific technologies, and technology access placement and positioning will be completed and used to appraise the use of each software/app. The plan will be developed to monitor the outcomes, reevaluate, and adjust the software/app features.

d. Customized Training

Candidate designs a training plan customized specifically for the user that is to be trained. The plan should include: *goal(s)* of the 1 hour training, *objectives* for each section or topic being trained and allocated *timeframe* for each, a listing of training *materials*, *procedural steps* for the training that integrate *evidence-based strategies* and *data* collection, and additional *resources* for the user to take with them following the training.

e. Demonstration

Candidate records a 2-3 minute video documenting a portion of the training that shows the candidate demonstrating the use of the software/app. The video will accompany the Instructional Plan write-up as evidence the candidate has proficiency in AT use.

f. Reflection

Candidate provides a reflection on the implementation of the software/app training from both the candidate/instructor and the user/student perspective. The reflection will also include of a listing of what would be done differently if the training were repeated, what steps should be taken if additional training was needed and what potential professional development the candidate/trainer needs might require to provide additional training.

g. Community Impact

Candidate discusses the potential impact their software/app training could have on individuals with disabilities, their families, and communities across environments, settings and life span.

Software and/or App Assessment Rubric

(Performance Based Assessment)

	Does Not Meet Expectations 1	Meets Expectations 2	Exceeds Expectations 3
Software/App Overview AT Program Standard 2	Candidate fails to identify software/apps developed to specifically provide personalized supports for individuals with exceptional needs.	Candidate identifies software/app tools to provide personalized supports for individuals with exceptional needs.	Candidate identifies software/app tools to provide personalized supports for individuals with exceptional needs across environments, settings, and the life span.
User Characteristics and Needs AT Program Standard 1	Candidate fails to identify specific and related characteristics of users who could benefit from the specified software/apps 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 software/apps.	Candidate identifies specific characteristics of users who could benefit from the specified software/apps. 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 software/apps.	Candidate identifies specific characteristics of users who could benefit from the specified software/apps 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 software/apps.
Evaluation Trials AT Program Standards 3 & 4	Candidate fails to apply knowledge and skills to identify specific user needs and evaluate	Candidate applies knowledge and skills to identify user needs and evaluate software/apps that are	Candidate applies knowledge and skills to identify user needs and evaluate a range of software/app that

	software/apps that are meaningful and useful to individuals with exceptional needs, their families, and/or their community of support. Candidate's plan to monitor outcomes of the software/app implementation is limited.	meaningful and useful to individuals with exceptional needs, their families, and/or their community of support. Candidate develops a plan to monitor outcomes of the software/app implementation.	are meaningful and useful to individuals with exceptional needs as well as their families and community of support. Candidate develops a detailed and specific plan to monitor outcomes of the software/app implementation.
Customized Training Plan AT Program Standards 2 & 3	Candidate fails to identify and match appropriate software/apps based on individual and environmental needs. Candidate fails to utilize evidence-based strategies to develop personalized supports for individuals with exceptional needs. Candidate does not identify placement of devices and positioning of the individual to optimize the use of assistive technology.	Candidate identifies and match appropriate software/apps based on individual and environmental needs. Candidate utilizes evidence-based strategies to develop personalized supports for individuals with exceptional needs. If applicable, candidate identifies placement of devices and positioning of the individual to optimize the use of assistive technology.	Candidate identifies and match appropriate software/apps based on individual and environmental needs while also considering personal interests, preferences, values and cultural influences. Candidate utilizes evidence-based strategies to develop personalized supports for individuals with exceptional needs across environments, settings, and the life span. If applicable, candidate identifies placement of devices and positioning of the individual to optimize the use of assistive technology.
Demonstration AT Program Standard 2	Candidate does not demonstrate knowledgeable of and proficiency in use of software/apps strategies and tools.	Candidate is knowledgeable of and demonstrates proficiency in use of software/apps strategies and tools.	Candidate is knowledgeable of and demonstrates proficiency in use of software/app tools and evidence-based strategies.
Reflection	Candidate fails to	Candidate promotes	Candidate promotes

AT Program Standard 5	promote and advocate for the benefits of continued implementation of software/app 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 software/apps.	and advocate for the benefits of continued implementation of software/app 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 software/apps.	and advocate for the benefits of continued implementation of software/app 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 software/apps, which may include participation in activities of professional organizations relevant to the field of assistive technology.
Community Impact AT Program Standard 1	Candidate provides a limited discussion that does not specifically address the impact software/apps can have on individuals with various abilities, needs, and learning preferences within various cultures and communities.	Candidate discusses the impact software/apps can have on individuals with various abilities, needs, and learning preferences within various cultures and communities.	Candidate discusses the impact software/apps can have on individuals with various abilities, needs, and learning preferences and their families within various diverse cultures and communities.

Online Discussions

The **Online Discussion** is the heartbeat of this course. We will be sharing experiences, opinions, questions, etc. on the Discussions Board. To consider for full participation, **not only** you submit your original posting, **but also** you need to interact with at least two classmates during that week’s assigned assignment. Posted messages should be significant - helping the discussion move forward. There are a variety of ways to do this, including:

- Providing concrete examples, perhaps from your own experience
- Describing possible consequences or implications
- Posing a clarifying question
- Suggesting a different perspective or interpretation
- Pulling in related information from other sources – books, articles, websites, other courses, etc.

The original posting should be posted by Saturday, 11:59pm of that week. The responses to other classmates should be posted by Monday, 11:59pm of that week. Your participation score for a given week will be based on the timelessness, the quality of your postings to that discussion, and interactivity. You will find a detailed rubric on Blackboard.

Schedule

Tentative Class Topics and Due Dates (Subject to change for any unforeseen interruptions)

Module	Topic/Learning Activities	Textbook Readings*, Weekly Activities & Assignments Due
1 June 3 – June 9	Introduction <ul style="list-style-type: none"> • Exploring software and mobile applications • What makes a piece of software "special"? • What are learners' characteristics/areas of need? 	Chapters 1 & 2 Getting to Know You Assignment (Due 6/7) – 2 pts Learning Module 1 Activities (Due 6/9) – 8 pts
2 June 10 – June 16	Evaluating Educational Software and Mobile Apps <ul style="list-style-type: none"> • Demonstration and review of existing educational software and mobile apps • Software and App Evaluation Checklist • Matching software and apps with user characteristics 	Chapters 3, 4 & 5 Learning Module 2 Activities (Due 6/16) – 8 pts
3 June 17 – June 23	Software and App Exploration Beyond Education <ul style="list-style-type: none"> • Demonstration and review of switch software, scanning, life skills software and apps • Online/Offline Connection 	Chapters 6 & 7 Learning Module 3 Activities (Due 6/23) – 8 pts
4 June 24 –	Software/App Design/Authoring Tools <ul style="list-style-type: none"> • Storyboarding 	Learning Module 4 Activities (Due 6/30) – 8 pts

June 30	<ul style="list-style-type: none"> • Screen design • Screen development, • Including accessibility features in design • Begin review of authoring programs 	
5 July 1 – July 7	Authoring Tools <ul style="list-style-type: none"> • Pixie 3 • Clicker 6 • Boardmaker Studio • Classroom Suite 4 	Learning Module 5 Activities (no pts) Software Program/App Development (Due July 7) – 20 pts
6 July 8 – July 14	Data Collection to Determine Outcomes, Usability, and Possible Revisions	Learning Module 6 Activities & Data Collection Plan Draft (Due July 14) – 8 pts
7 July 15 – July 21	Built-in Accessibility Features in a Variety of Stationary and Mobile Platforms <ul style="list-style-type: none"> • What are built-in accessibility features? • Are they supported by software and apps 	Learning Module 7 Activities (Due 7/21) – 8 pts
	Final Project Development	Software Program/App Assessment including Data Collection/Revision Plan (Due 7/22) – 30 pts

* Additional readings will be provided by the instructor in the Weekly Learning Modules.