

**GEORGE MASON UNIVERSITY
COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT
SPECIAL EDUCATION**

**EDSE 517 Section 001 (3 credits)
Computer Applications for Special Populations
Summer 2011
Tuesdays/Thursdays 4:30-7:10
Aquia Hall Room 219**

PROFESSOR

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COURSE DESCRIPTION

Lecture and laboratory course for teachers of special populations in applications of computer technology for instructional programs and computer skills. Students learn to use computer technology designed for special populations.

NATURE OF COURSE DELIVERY

Learning activities in this class will include the following:

1. Class lecture, discussion, and participation
2. Software and hardware presentations
3. Group and independent laboratory activities
4. Class presentations
5. Written papers using the American Psychological Association format (6th edition)

STUDENT OUTCOMES

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

1. Demonstrate an understanding of the history of assistive technology.
2. Describe and implement a comprehensive set of procedures for software review and evaluation for specific populations.
3. Describe and utilize key devices and software tools designed to help individuals with disabilities in educational settings including learning, physical, sensory, and intellectual disabilities.
4. Describe key features in selecting and using an augmentative and alternative communication device for an individual.
5. Define the issues related to the accessibility of the Internet by individuals with disabilities.
6. Evaluate and select appropriate web-based activities for individuals with disabilities.
7. Adapt and modify general education curriculum and class activities using assistive technology to meet the needs of diverse learners.
8. Design an appropriate technology integrated lesson plan for a specific special education population.

RELATIONSHIP OF COURSES TO PROGRAM GOALS AND PROFESSIONAL ORGANIZATIONS

This course is part of the George Mason University, Graduate School of Education, and Special Education Masters Degree Program.

REQUIRED TEXTS

This semester we will be using Blackboard 9.1. Students login to 9.1 at <http://mymason.gmu.edu>. The User Name is the first part of your Mason email address and the same password that you use to access your Mason email account. If you cannot log in or are having technical difficulties, please direct any technical problems to the ITU Support Center at 703-993-8870 or support@gmu.edu

Additional readings will be handed out in class. There is no required textbook. Students are required to bring a USB memory drive (also known as jump drives or thumb drives) to class to save student work.

ASSESSMENT OF COURSE REQUIREMENTS

All assignments should be word-processed and are due at the start of class on the dates indicated including assignments submitted through Blackboard. Consult with the instructor in advance if there is a problem. In fairness to students who make the effort to submit papers on time, there will be a 10% cost reduction per day for late papers. (For example, a 20 point assignment will lose 2 points per day while a 50 point assignment will lose 5 points per day.) Please retain a copy of your assignments in addition to the one you submit. All assignments should reflect graduate-level spelling, syntax, and grammar. 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. At the instructor's discretion, students may be given the opportunity to resubmit an assignment. Resubmitted assignments are not eligible for full credit.

- It is recommended that students retain ELECTRONIC copies of all course products. Products from this class can become part of your individual professional portfolio used in your portfolio classes that documents your satisfactory progress through the GSE program and the CEC performance based standards.
- The signature assignment required for this course (Assistive/Instructional Technology Lesson) must be submitted electronically to Mason's NCATE management system, TaskStream: (<https://www.taskstream.com>). **Note:** Every student registered for any EDSE course as of the Fall 2007 semester is required to begin submitting signature assignments to TaskStream (regardless of whether a course is an elective or part of an undergraduate minor). TaskStream information is available at <http://gse.gmu.edu/programs/sped/>. Failure to submit the assignment to TaskStream will result in reporting the course grade as Incomplete (IN).

NOTE: If you need course adaptations or accommodations because of a disability or if you have emergency medical information to share with me or need special arrangements, **please call and/or make an appointment with me the first week of class.**

COURSE EXPECTATIONS

- Students are expected to (a) attend all classes during the session, (b) arrive on time, (c) stay for the duration of the class time and (d) complete Blackboard discussion boards and other assignments.
- During class time, computers and printers are to be used only for work related to the class. Students found using the computer (whether personal laptop or lab computer) for purposes other than the

assigned in class activity will be asked to turn off their equipment and will not receive participation points for that class session.

- In-depth reading, study, and work on course requirements require outside class time. Students are expected to allot approximately three hours for class study and preparation for *each* credit hour weekly (a three credit hour course would require nine hours of work weekly in a 45-hour, semester course).
- Use APA 6th Edition guidelines for all course assignments. This website links to APA format guidelines. <http://www.psywww.com/resource/apacrib.htm>. In particular, 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.collegeboard.com/student/plan/college-success/10314.html>.
- We will use person-first language in our class discussions and written assignments (and ideally in our professional practice). Please refer to “Guidelines for Reporting and Writing about people with disabilities” <http://www.apastyle.org/manual/related/guidelines-reporting-and-writing.pdf>

COURSE ASSIGNMENTS

All assignment rubrics are posted on Blackboard.

1. **Class and Lab Participation (30 points)** Attendance at all sessions is very important because many of the activities in class are planned in such a way that they cannot necessarily be recreated outside of the class session. Class and lab participation is demonstrated by participation and utilization of lab time in an effective and efficient manner, and completion of in-class assignments handed in during each class period. Students will complete an in-class activity each week (14 weeks). Students who successfully complete 13-14 in-class activities will earn 30 points, students who successfully complete 12 in-class activities will earn 25 points, students who successfully complete 11 in-class activities will earn 20 points, while students who complete between 0-10 in-class activities will receive 0 points. Completion of in-class activities includes both active participation in the activity as well as submission of a permanent product (form, summary statement, reflection, etc.). Students who miss a class will not have the opportunity to make up missed in-class assignments, and therefore, will not earn class participation points for that missed class session. Also, since the time to complete in-class activities will vary each class session, significant tardiness or early departure may count as an absence if the student misses the in-class activity or does not complete it in its entirety during the allotted time.
2. **Teacher Productivity Tools Assignment (10 points)** Students will select a teacher productivity tool such as Microsoft Excel, Word, or PowerPoint and develop an artifact that will be useful to them as a teacher in the classroom. For instance, using Microsoft Excel students can create a grade sheet for a class that they teach or might be teaching, or they can create an interactive worksheet or quiz using Microsoft Word. A list of possible projects and directions will be provided by the instructor. This assignment will be submitted through Blackboard and is due by the start of class (4:30 pm) on the due date. Please refer to the scoring rubric for additional information on this assignment. **(Due June 16)**
3. **Software Review (15 points)** Students will choose a piece of educational software of interest to review; it should be a recent version. The software review should provide a brief description of the software followed by a thorough review of the software guided by the provided checklist, as well as the discussion of possible software application within a chosen environment. The review should address the primary features of the software including accessibility and other topics addressed in class (content, user friendliness, adult management features, support materials, and value). Students will use the software review format introduced in class to evaluate the selected software. Students may not review a productivity/utility software program for this assignment. Please refer to the scoring rubric for additional information on this assignment. **(Due June 28)**

4. **Technology Tools Assignment (10 points).** Students will select a broad technology category to research, describe, and analyze based on the needs of an actual student or developed case study. A list of technology categories (i.e. word prediction) will be provided by the instructor. Students will then select two specific technologies within their category (i.e. CoWriter and TextHelp) as part of their analysis. In a 2-3 page paper, students should provide a description of the overall technology including its intended purpose, audience, and important features. Students then should provide a brief description of each specific technology they have selected along with a comparison of product similarities and differences. Finally the paper should include a recommendation for one of the specific technologies based on the needs of a real client or an invented scenario. Please note: it is anticipated that students will use the Internet and/or product catalogs to obtain product information and descriptions, however students are expected to reference such information using proper APA format including correct referencing both within the narrative and in the reference list. Please refer to the scoring rubric for additional information on this assignment. **(Due July 7)**
5. **Assistive/Instructional Technology Lesson (35 points)** Students will design an interactive computer-based lesson that has been adapted for a specific population and includes on-line and off-line products. This lesson should integrate instructional and assistive technology and should engage students actively with the technology. Students will write a lesson plan in paragraph or bulleted format addressing all the required elements provided by the instructor and create an on-line and off-line product to be used in the lesson. Students will present the lesson and their products on the last day of class. Please refer to the scoring rubric for additional information on this assignment. **(Due July 21)**

GRADING SCALE

| | |
|------------|------------|
| 95-100 = A | 80-82 = B- |
| 90-94 = A- | 70-79 = C |
| 86-89 = B+ | < 70 = F |
| 83-85 = B | |

COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT STATEMENT OF EXPECTATIONS

Student Expectations

- Students must adhere to the guidelines of the George Mason University Honor Code [See <http://academicintegrity.gmu.edu/honorcode/>].
- Students with disabilities who seek accommodations in a course must be registered with the George Mason University Office of Disability Services (ODS) and inform their instructor, in writing, at the beginning of the semester [See <http://ods.gmu.edu/>].
- Students must follow the university policy for Responsible Use of Computing [See <http://universitypolicy.gmu.edu/1301gen.html>].
- Students are responsible for the content of university communications sent to their George Mason University email account and are required to activate their account and check it regularly. All communication from the university, college, school, and program will be sent to students solely through their Mason email account.
- Students must follow the university policy stating that all sound emitting devices shall be turned off during class unless otherwise authorized by the instructor.
- Students are expected to exhibit professional behaviors and dispositions at all times.

Campus Resources

- The George Mason University Counseling and Psychological Services (CAPS) staff consists of professional counseling and clinical psychologists, social workers, and counselors who offer a wide range of services (e.g., individual and group counseling, workshops and outreach programs) to enhance students' personal experience and academic performance [See <http://caps.gmu.edu/>].
- The George Mason University 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/>].

PROPOSED CLASS SCHEDULE

| Session | Date | Topic/Learning Experiences | Assignments Due |
|----------------|-------------|---|---|
| 1 | June 7 | Lecture and Lab: Introduction to AT | |
| 2 | June 9 | Lecture and Lab: Teacher Productivity Tools | |
| 3 | June 14 | Lecture and Lab: Software Features and Evaluation | |
| 4 | June 16 | Lecture and Lab: AT for Students with Learning Disabilities-Reading Tools | <ul style="list-style-type: none"> • Teacher Productivity Tools Assignment |
| 5 | June 21 | Lecture and Lab: AT for Students with Learning Disabilities-Writing Tools | |
| 6 | June 23 | Lecture and Lab: AT for Students with Physical Disabilities | |
| 7 | June 28 | Lecture and Lab: Using the Internet for Instruction (No Class: Online Assignment) | <ul style="list-style-type: none"> • Software Review Assignment |
| 8 | June 30 | Lecture and Lab: AT for Students with Sensory Impairments | |
| 9 | July 5 | Lecture and Lab: Augmentative and Alternative Communication | |
| 10 | July 7 | Lecture and Lab: Accessing the General Curriculum-Math, Science and Social Studies | <ul style="list-style-type: none"> • Technology Tools Assignment |
| 11 | July 12 | Lecture and Lab: Accessing the General Curriculum-Language Arts | |
| 12 | July 14 | Lecture and Lab: Authoring Tools | |
| 13 | July 19 | Lecture and Lab: AT and the IEP | |
| 14 | July 21 | Student Presentations: Assistive/Instructional Technology Lesson Plan and Adaptation | <ul style="list-style-type: none"> • Assistive/Instructional Technology Lesson Presentation and Adaptations Presentation |
| 15 | July 26 | Reserved as a make-up day | |