

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

Spring 2018
EDAT 649 DL1: Assistive Technology Assessment
CRN: 11870, 3 – Credits

Instructor: Ms. Cindy George	Meeting Dates : 01/22/18 – 05/16/18
Phone: 571-230-7854	Meeting Day(s):
E-Mail: cgeorge4@gmu.edu	Meeting Time(s):
Office Hours: Upon request	Meeting Location: Online
Office Location: Krug Bldg. 105	Other Phone: 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): EDAT 510: Introduction to Assistive Technology

Co-requisite(s): None

Course Description

Provides an overview of AT consideration and assessment procedures with emphasis on generated assessment plan and written report. Review and administer existing assistive technology (AT) evaluation instruments. Notes: Field Experience required. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDAT 510.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may not enroll.

Schedule Type: Lecture

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

Course Instructional Method

EDAT 649 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

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 an 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 on Monday, January 22, 2018.

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 a standard up-to-date browser, either Internet Explorer or Mozilla Firefox is required (note: Opera and Safari are not compatible with Blackboard).
- 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 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:
 - o Adobe Acrobat Reader: https://get.adobe.com/reader/
 - o Windows Media Player: https://support.microsoft.com/en-us/help/14209/get-windows-media-player
 - o 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 Wednesday and finish on Tuesday starting 1/24/18.

• 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. In addition, students must log-in for all scheduled online synchronous meetings.

• 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.

• Assessment Training Modules:

Posted activities and assignments within each module for Weeks 1-7 will receive total point credit if the assignment is submitted on-time and noted 'complete,' as indicated by the feedback submitted the instructor through Blackboard. If a revision is recommended, also submitted as feedback on Blackboard, ½ of the credit will be given until that work is resubmitted and complete.

• Assessment Project Modules:

Posted assignments within each module for Weeks 8-13 are guided draft activities designed to provide guidance and feedback on active assessment activities. Students will receive credit for the assignment when submitted. If a revision is recommended, students are expected to resubmit till task outcomes are accepted.

• Student/Instructor Mid-Semester Meeting:

A one-on-one meeting is to be scheduled between each student and the instructor for Week 10; before 4/9/17. The meeting can take place via Blackboard Collaborate, FaceTime, or face-to-face at Mason.

• Assistive Technology Assessment Project:

Due dates are listed within the course Schedule (found at the end of the syllabus) as well as within each assignment as it is listed on Blackboard. All work submitted late will automatically receive a response cost unless arrangements are made in advance with the instructor.

• 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. Determine if assistive technology has been adequately considered for individual.
- 2. Review and identity user characteristics and match to specified toy features.
- 3. Define and provide teaching strategies for prerequisites to computer use.
- 4. Review and implement an existing assistive technology protocol.
- 5. Master assessment strategies to make appropriate technology decisions.
- 6. Conduct and compose an assistive technology assessment for individuals with disabilities.

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 assistive technology. The primary AT Program standards that will be addressed in this class include the following: Standard 3: Assessment and Planning and Standard 5: Professional Practice and Collaboration. *NOTE: NCATE Assessments (in many but not all courses) may address additional AT Program standards.

Required Textbooks

Cook, A. M. & Polgar, J. M. (2015). Assistive technologies: Principles and practice, 4e. St. Louis, Mo: Mosby Elsevier.

Recommended Textbooks

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

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 649, the required PBA is Assistive Technology Assessment Project. Failure to submit the assignment to Tk20 will result in reporting the course grade as Incomplete (IN). Teacher candidates/students have until five days prior to the University-stated grade change deadline to upload the required PBA in order to change the course grade. When the PBA is uploaded, the teacher candidate/student is required to notify the instructor so that the "IN" can be changed to a grade. If the required PBA is not uploaded five days prior to the University-stated grade change deadline and, therefore, the grade not changed, it will become an F. Please check to verify your ability to upload items to Tk20 before the PBA due date.

Assignments and/or Examinations

Performance-based Assessment (Tk20 submission required)

The signature assignment(s) for this class is: Assistive Technology Assessment Project. Please see specific assignment description below.

College Wide Common Assessment

There are no college wide common assignments.

Performance-based Common Assignments (No Tk20 submission required.)

There are no common assignments with other classes.

Other Assignments

1. Assessment Training Modules (30 points)

Students are required to view assessment content presentations posted on Blackboard for 6 weekly distance sessions. Assignments contained within and supporting these presentations are to be completed and will be due by the specified dates posted for each module assignment. Individual modules are worth 5 points each. All activities within each module must be completed to receive total module credit.

2. Assessment Protocol Presentation (15 points)

Students are to review the assigned assessment protocol. A narrated PowerPoint presentation should then be prepared and submitted that introduces and describes the protocol.

Presentation should include: Goal of protocol, Target audience, Pre-requisites, Procedures, Personal reaction.

**Assessment Protocol Presentation (due 2/11/18)*

**Assessment Protocol Comparison (due 2/13/18)*

3. Toy Evaluation (10 points)

Students are to complete a toy evaluation on a commercially available toy (approved by the instructor) using the format posted on Blackboard. The evaluation will include a photo of the toy along with reactions to its implementation with children who have varied disabilities.

Toy Approval (due 2/20/18) Toy Evaluation (due 3/6/18)

4. Computer Prerequisites (10 points)

Students are to explore and define prerequisite computer skills. For each skill, students will match strategies and activities using typical manipulatives for supporting each skill. A Prerequisite Form will be provided for this assignment on Blackboard.

Computer Prerequisites (due 3/13/18)

5. Assistive Technology Assessment Project (35 points) (Performance Based Assessment)

Students are to complete an individual assistive technology assessment to provide AT solutions for an individual who has a disability. The project will consist of assessment activities and interactions throughout the semester consisting of evaluation data to match technologies and strategies that prove to benefit and support predetermined assessment objectives.

A written report (format provided) outlining these activities as well as a narrated PowerPoint presentation summarizing the assessment is also required. The content of this presentation is to be modified from the written report to protect client confidentiality prior to being posted on Blackboard for peer review.

	Assignment Requirements	Points	Comments				
COMI	COMMUNICATION (5 points)						
Mid-A	Mid-Assessment Meeting 3 pts Week 10: BEFORE 4/10/18						
Comm	nunication w/Instructor2 pts		On-going				
REPO	RT (20 points) draft due 4/24/18; final due	e 5/6/18					
ysis	Goal & objectives2 pts						
Anal	Background2 pts						
Client Needs Analysis	Interview of client, caretakers, and/or professionals2 pts						
Client	Observational summary of client & environment						
Devices	Identification of potential assistive technology solutions3 pts						
Trials	Evaluation/Trial data3 pts						
Solutions	Rationale of selection of assistive technology solutions 3 pts						
Solu	Pros/Cons of relevant AT3 pts						
PRESI	ENTATION (10 points) due 5/1/18						
Summ	eary of report						
Oral p	resentation of report2 pts						
	presentation of report content dings via PowerPoint						
Infogr	aphic of another's presentation 4 pts		Due <i>5/8/18</i>				
	Points and the state of 35 possible)						

Course Policies and Expectations Attendance/Participation

Students are expected to actively engage in ALL weekly 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. Please note that while only certain learning elements are assessed through "grades", the instructor can still assess student involvement and engagement using other measures. Blackboard enables the instructor to view such data as login dates, duration of time spent online, access to specific content elements, and more. The instructor will use this data along with course grades to ensure that students are actively engaged in the course.

Late Work

Work will not be accepted if work is submitted a week past the due date.

All module work submitted late will automatically receive ½ credit unless arrangements are made in advance with the instructor. All final project work will receive a response cost unless arrangements are made in advance with the instructor.

Grading Scale

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

Assessment Training Modules	30
Assessment Protocol Presentation.	15
Toy Evaluation	10
Computer Prerequisites	10
AT Assessment Project	35

TOTAL POINTS 100

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

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95-100% = A

90-94% = A-

87-89% = B+

83-86% = B

80-82% = B-

70-79% = C

< 70% = F
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*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 <u>must</u> 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.

	Торіс	Readings & Assignments		
Week 1 1/24-1/30	Assistive Technology Assessment Overview	Reading: Cook & Polgar (2015) Chapters 1&2 Assignment: Assessment Module 1		
Week 2 1/31-2/6	Assessment Protocol	Assignment: Receipt of Assessment Protocol		
Week 3 2/7-2/13	Screening and Assessment Procedures	Reading: Cook & Polgar (2015) Chapter 3 Assignment: Assessment Module 2 Assessment Protocol Presentation (due 2/11/18) Assessment Protocol Comparison (due 2/13/18)		
Week 4 2/14-2/20	Assessing Computer Prerequisites & Control of the Environment	Reading: Cook & Polgar (2015) Chapters 8&12 Assignment: Assessment Module 3 Toy Approval (due 2/20/18)		
Week 5 2/21-2/27	Report Writing & Sensory Aids	Reading: Cook & Polgar (2015) Chapters 13&14 Assignment: Assessment Module 4		

Week 6 2/28-3/6	AT Library and Internet Solution Searches & Mobility Aids	Reading: Cook & Polgar (2015) Chapter 9,10,11 Assignment: Assessment Module 5 Toy Evaluations (due 3/6/18)		
Week 7 3/7-3/13 Spring Break	AT Assessment Professionals & Augmentative and Cognition Systems	Reading: Cook & Polgar (2015) Chapters 15&16 Assignment: Assessment Module 6 Computer Prerequisites (due 3/13/18)		
	~~~~ Final AT As	sessment Project Begins ~~~~		
Weeks 8 & 9 3/21-4/3	AT Assessment: User/Client Needs	Assignment: Independent field research & experience User/Client Needs: Background Information, Observation, Interview, Goals & Objectives		
<b>Week 10</b> 4/4-4/10	AT Assessment: Identify Potential AT Devices	Assignment: Instructor meeting  Device identification & Mid-Assessment Meeting (due BEFORE 4/10/18)		
<b>Week 11</b> 4/11-4/17	AT Assessment: AT Evaluation Trials	Assignment: Independent field experience & Device Trials		
<b>Week 12</b> 4/18-4/24	AT Assessment: Suggestions, and Recommendations	Assignment: AT Recommendations  AT Assessment Report /DRAFT  (due 4/24/18)		
Week 13 4/25-5/1	AT Assessment Presentation	Assignment:  AT Assessment Presentation (due 5/1/18)		

Week 14 5/2-5/8

# AT Assessment Report

AT Presentation Peer Review Assignment: AT Assessment FINAL Report (due 5/6/18)

Infographic Peer Review (due 5/8/18)

#### **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 <a href="https://catalog.gmu.edu/policies/honor-code-system/">https://catalog.gmu.edu/policies/honor-code-system/</a>).
- 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 <a href="http://ods.gmu.edu/">http://ods.gmu.edu/</a>).
- Students must follow the university policy stating that all sound emitting devices shall be turned off during class unless otherwise authorized by the instructor.

# **Campus Resources**

- Support for submission of assignments to Tk20 should be directed to <u>tk20help@gmu.edu</u> or <u>https://cehd.gmu.edu/aero/tk20</u>. Questions or concerns regarding use of Blackboard should be directed to <u>http://coursessupport.gmu.edu/</u>.
- 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 <a href="https://cehd.gmu.edu/students/">https://cehd.gmu.edu/students/</a>.

# Appendix

**Assessment Rubric: TK20: University Accreditation** 

	Assessment Criteria	Does Not Meet Expectations	Meets Expectations	Exceeds Expectations
Client Needs Analysis AT Program Standards 3.4	Indicator 3.4: Candidates understand the use of multiple types of assessment information.	Candidate fails to use multiple types of assessment information to provide evidence of assistive technology needs.	Candidate uses multiple types of assessment information to provide evidence of assistive technology needs.	Candidate uses multiple types of assessment information within the client's natural environment to provide evidence of assistive technology needs.
Client Needs Analysis AT Program Standards 5.4	Indicator 5.4: Candidates demonstrate skill in collaborating with individual with exceptional needs, their families and other professionals including educators, related services providers, and personnel from government and community agencies in culturally responsive ways through the	Candidate fails to collaborate with individuals with exceptional needs, their families and other professionals to identify AT goals.	Candidate collaborates with individuals with exceptional needs, their families and other professionals to identify AT goals.	Candidate collaborates with individuals with exceptional needs, their families and other professionals in culturally responsive ways to identify AT goals.

	Assessment Criteria	Does Not Meet Expectations	Meets Expectations	Exceeds Expectations
	assessment, selection, implementation s, training, and evaluation of assistive technology tools and strategies for individuals with exceptional needs.			
Potential AT Devices  AT Program Standard 3.6	Indicator 3.6: Candidates use results of assessments in selecting assistive technology tools and strategies for individual with exceptional needs across environment and settings.	Candidate fails to use results of assessments to identify and match appropriate technology to support an individual with exceptional needs.	Candidate uses results of assessments to identify and match appropriate technology to support an individual with exceptional needs.	Candidate uses results of assessments to identify and match appropriate technology to support an individual with exceptional needs; providing a rationale that considers the individual's personal interests, preferences, values and cultural influences.
Potential AT	Indicator3.5:	Candidate fails	Candidate	Candidate
Devices	Candidates make	to identify a range of AT	identifies a range of AT	identifies a range of AT
AT Program	technology	options with	options with	options within
Standard 3.5	decisions based	the no-	the no -	the no-
	on a continuum	technology to	technology to	technology to
	of options	high-	high-	high

	Assessment Criteria	Does Not Meet Expectations	Meets Expectations	Exceeds Expectations
	ranging from no technology to high technology.	technology continuum.	technology continuum.	technology that can be used across multiple environments.
Potential AT Devices AT Program Standard 3.2	Indicator 3.2: Candidates identify and match appropriate technology based on individual and environmental needs while also considering personal interests, preferences, values and cultural influences.	Candidate fails to identify and match appropriate assistive technology based on an individual's interests, preferences, values, and cultural influences.	Candidates identifies and matches appropriate assistive technology based on an individual's interests, preferences, values, and cultural influences.	Candidates identifies and matches appropriate assistive technology based on an individual's interests, preferences, values, and cultural influences across environments, settings, and life span.
Evaluation Trials  AT Program Standards 4.1 & 4.2	Indicator 4.1: Candidates apply knowledge and skills to identify user needs and customize assistive technology tools and strategies that are meaningful and useful.  Indicator 4.2: Candidates	Candidate fails to apply knowledge and skills to evaluate assistive technology tools and strategies that may prove meaningful and useful to individuals with exceptional needs, their	Candidate applies knowledge and skills to evaluate assistive technology tools and strategies that may prove meaningful and useful to individuals with exceptional needs, their	Candidate applies knowledge and skills to evaluate a range of assistive technology tools and strategies that may prove meaningful and useful to individuals with exceptional
	provide	families,	families,	needs as well

	Assessment Criteria	Does Not Meet Expectations	Meets Expectations	Exceeds Expectations
	customized assistive technology training services to individuals with exceptional needs, their families, and/ or their community of support.	and/or their community of support.	and/or their community of support.	as their families and community of support. In addition, candidate shares evaluation tasks with member(s) of the AT team.
Evaluation Trials  AT Program  Standards 3.7	Indicator 3.7: Candidates develop and report plans to implement and monitor outcomes of interventions and reevaluate and adjust the system as needed.	Candidate's plan to monitor outcomes of the evaluation trial is limited and/or candidate does not make appropriate adjustments to the plan as needed.	Candidate develops and implements plan to monitor outcomes of the evaluation trial and adjust the plan as needed.	Candidate develops and implements a detailed and specific plan to monitor outcomes of the evaluation trial and make immediate and responsive adjustments to the plan as needed.
AT Recommendatio ns AT Program Standard 2.4	Indicator 2.4: In conjunction, candidates possess a repertoire of evidences- based strategies to develop personalized supports for individuals with exceptional	Candidate fails to use results of evaluation trials to identify assistive technology tools that match user needs and provide personalized	Candidate uses results of evaluation trials to identify assistive technology tools that match user needs and provide personalized	Candidate uses results of evaluation trials to identify assistive technology tools and offer implementation strategies that match user needs and
	needs across environments,	supports for an individual	supports for an individual-	provide personalized

	Assessment Criteria	Does Not Meet Expectations	Meets Expectations	Exceeds Expectations
AT Recommendatio	settings, and the life span.  Indicator 3.1: Candidates	with exceptional needs.  Candidate fails to or is limited	with exceptional needs.  Candidate advocates for	supports for individuals with exceptional needs across environments, settings, and the life span.  Candidate advocates for
ns AT Program Standard 3.1	advocate for assistive technology on individual and system change levels.	in advocating for assistive technology on individual and system change levels.	assistive technology on individual and system change levels.	assistive technology on individual and system change levels over expanded timeframe and across environments, settings, & life span.
Report Writing  AT Program  Standard 5.1	Indicator 5.1: Candidates promote and advocate for the benefits of continued implementation of assistive technology tools and strategies for individuals with exceptional needs across a wide range of settings and based on various needs.	Candidate fails to promote and advocate for the benefits of continued implementatio n of assistive technology tools and strategies for an individual with exceptional needs within a well- organized, professionally written assessment	Candidate promotes and advocates for the benefits of continued implementation of assistive technology tools and strategies for an individual with exceptional needs within a well-organized, professionally written assessment	Candidate promotes and advocates for the benefits of continued implementatio n of AT tools, strategies and resources for an individual with exceptional needs across a wide range of settings & based on various needs; within a well-organized, professionally

	Assessment Criteria	Does Not Meet Expectations	Meets Expectations	Exceeds Expectations
		report.	report.	written assessment report.
Report Writing  AT Program  Standard 5.2	Indicator 5.2: Candidates model ethical behavior and promote professional standard.	Candidate fails to model ethical behavior and promote professional standards in both written and oral	Candidate models ethical behavior and promote professional standards in both written and oral communicatio	Candidate models ethical behavior and promote professional standards in both written and oral communicatio
		communicatio n.	n.	n.