Effective Communication: Faculty and Students with Disabilities

Tips for fully engaging students with disabilities

The effectiveness of communication with faculty and peers can directly affect the success of students. There is a great deal of stigma associated with disabilities that affect human interaction, and often a misconception that intelligence is somehow correlated with clarity of speech and other communication abilities.

Some students might hear and understand everything that is happening in your classroom, but their contribution is limited because they cannot fully participate through speech. For example, some students who have cerebral palsy or certain types of brain injuries may experience difficulties in making their ideas clear through speech to other than close friends and family members. They may choose not to use their own voices if they expect they will not be understood. Some use computer-based communication to share their thoughts through a synthesized voice.

The origins of communication-related difficulties are often speech, language, or hearing impairments, but other conditions impact communication abilities as well. A student with a significant phobia or anxiety disorder may take an extended amount of time to begin speaking. This student might have difficulty answering a question posed in a small group situation. Some students who have chronic medical conditions such as asthma may simply need extra time to express themselves verbally. Side effects of medication can impact spontaneity in speaking.

Even students without diagnosed disabilities may be reluctant to participate verbally in class. Many accommodation strategies that promote effective communication with students who have disabilities can be integrated into how you design your courses as an application of the proactive approach called universal design (UD).

This publication provides tips for faculty to ensure that students with communication challenges can fully participate in course activities.

UD Strategies

All forms of communication in class may present minor or major barriers to students with a range of disabilities. Described below are general strategies that may minimize the effect of a communication-related disability.

- Add a statement to your syllabus inviting students who have disabilities to discuss their needs and accommodation strategies with you. Read the statement aloud on the first day and repeat the statement within the first two weeks of class.
- If you plan to lecture or otherwise use primarily auditory delivery, use visual support, such as a computer-based projection system. Provide printed handouts with key content.
- Select course materials and media early so that if captioning or alternate formats are required, they can be procured in a timely manner, perhaps with the assistance of disability support services on your campus.
- Offer multiple methods for evaluating student achievement (e.g., written assignments, projects, demonstrations, in-class participation).

For more UD strategies, consult The Center for Universal Design in Education at www.uw.edu/doit/CUDE/. In particular, read the publication Equal Access: Universal Design of Instruction.
Accommodation Strategies
Described below are accommodations that may benefit specific students. Be sure to ask a student who has identified himself as having a specific disability to share with you what strategies have worked and what accommodations will be useful to him in your class. Use the disability support services available on campus to help with accommodations.

Sign Language and Oral Interpreters
One of the most visible accommodations for a student with a communication-related disability is the presence of an interpreter at the front of the classroom. A professional interpreter translates spoken language into sign language. If a student cannot speak, the interpreter will also voice what the student signs. If the student does not know sign language, an oral interpreter may enhance his/her lip reading skills. Oral interpreters are professionals who understand which words are visible on the lips and can make spoken language more accessible to a lip reading deaf student. Oral interpreters also finger spell or point to help the student follow conversations. Interpreters often work in pairs so that they can take turns to prevent physical and mental fatigue.

Interpreters are not allowed to add or change anything they interpret and sometimes must ask the instructor for clarification or repetition. Using unfamiliar jargon may cause an interpreter to ask for information that the student (who is more familiar with the content) might not have asked. Be aware of the difference between the interpreter asking and the student asking for information. Pacing of presented materials can be challenging to interpreters when passages are read aloud, the speaker talks very quickly, or many technical terms are used. Take time before the presentation to discuss technical vocabulary and other issues with the interpreters.

Captioning Media
When showing films or videos, it is best to use a captioned version that displays subtitles with all information presented orally. If you are not able to get a captioned version of the media, it might be necessary to provide a transcript or to use a sign language interpreter during the presentation. Captioning has the advantage of presenting both video and text together. Students who are learning English as a second language also benefit from seeing the English subtitles while hearing the audio. Students who are deaf, hard of hearing, or who have difficulty processing spoken language might need extra time to process this information because they cannot watch the video or film and also read the text or follow the interpretation at the same time. Making the video presentation available for re-viewing (perhaps on the Internet) can benefit these and other students.

Real-Time Captioning
Court reporting techniques have been adapted to classroom use so that people who rely on text to communicate have instant access to the spoken word. A professional captioner sits with equipment to enter what is spoken and presents it on a computer monitor for the student. Sometimes these services include note taking; the student is given an electronic version of the presentation or group discussion. These systems are particularly useful for students who do not effectively follow content aurally but for whom reading printed English is a strength.

Amplification, Headphones, and Assistive Listening Devices
In large lecture halls, using a microphone for amplification might assist students who need louder sound but do not use personal listening devices. If a student is using any type of headphone or hearing aid that is receiving sound from the microphone none of the room noise, including comments, will be accessible. People who have difficulty processing sounds, because of hearing loss or learning disabilities, may
benefit from using headphones which directly process sound to the ears and block out environmental noise.

People who already have hearing aids may benefit from assistive listening devices such as FM systems, Infrared transmissions, and loops. These devices are designed to bring sound directly to the hearing aid from a transmitted location. When assistive listening devices are used, it is important that the person with the microphone repeat or rephrase questions posed and comments made by people who are not using the microphone.

**Note Takers**
For some students, listening requires all of their energy. Intense concentration is needed to follow the sign language interpreter, to lip read the instructor, or to process what is being heard. These students may often be unable to take notes and still maintain attention to spoken information. It is important for these students to have access to notes for review. Providing accommodations such as a sign language interpreter or FM system will not replace the need for notes in the same class. Student note takers are often recruited and trained to provide the student who has a disability with notes. Sometimes instructors will provide copies of their lecture notes.

**Visual Aids, Reinforcements, and Warning Systems**
The use of visual information is a benefit to students with auditory processing difficulties. Visual examples, icons, diagrams, charts, and illustrations can reinforce information delivered verbally. Since, in most classes, a great deal of information is presented verbally, it is helpful for instructors to make references, images, or other information available outside the class that reinforces what was taught verbally. This can be done with printed materials or on a web page.

For students who cannot hear, it is also important that any auditory warning signals for fire, smoke, or other purposes are available in a visual form (e.g., using a strobe light). This is especially important for students working in isolated locations, labs, study rooms, audio, video, or computer work areas.

**Written Assignments, Written Exams, Alternative Lab Work**
Sometimes an accommodation adjusts how homework is to be done, but not what is to be done. For example, instead of an oral presentation, a student might be allowed to videotape their presentation or use an interpreter or submit a written assignment; an exam that is normally given orally could be arranged in writing; work that is normally done with headphones or in a lab situation might be done in writing or with interpreter support. Make sure that assignments assess student knowledge and skills relative to course content, not the ability to hear or speak.

**Email and Written Communication**
Classroom comments and student questions can be done by email or handwritten notes if verbal communication in class is difficult, especially when due to anxiety or voice production. The use of email allows students more time to compose their thoughts.

**Communication Assistance, Peer Support, and Extended Time**
A third party might be useful for providing communication support. This person might be someone trained to interpret a speech pattern, read a communication board, or help a person make words more clear. Sometimes a student may benefit from having a peer or fellow student provide this support, but this should occur only with prior agreement and coordination between both students, taking care not to put a student on the spot or breech confidentiality.
Extended time is often needed for communicating orally or in writing with or without the aid of communication devices. Even using an interpreter may require more time due to a lag between the reception of the original language and the translation to the output language.

**Seating, Pacing, and Alternative Arrangements**  
Most students who have a hearing impairment will want to sit close enough to lip read the instructors and see interpreters or captions, typically near the front of the room. In situations with circles or non-traditional seating arrangements, the student may have to sit across from the instructor and have the interpreter or real-time captioner sit in the middle. Students with other learning needs may prefer to sit near a door, away from windows that bring in outside noise, or near the instructor. A student using an assistant may need extra seating for the second person and a student using technical aids may need to sit near power outlets or close to a specific piece of equipment.

Consider the pacing of your sessions. If possible, allow for quiet pauses and slower-paced answers to questions presented in class. Sometimes slowing the pace slightly can facilitate the participation of a student with a communication disability. Alternatively, consider providing smaller groups, seminars, and one-to-one opportunities so that the benefits of interaction are not lost for the student who cannot participate in large classes.

**About DO-IT**  
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