Promising Practices and Online Resources

3

The following sections share more promising practices and additional resources related to the application of UD in postsecondary education.

More Promising Practices

Websites, Publications, and Videos

More Promising Practices

DO-IT's Center for Universal Design in Education (CUDE) created an online, searchable Knowledge Base through several projects funded by the U.S. Department of Education Office of Postsecondary Education (Grant numbers P333A990042, P333A020044, and P333A050064, and expanded through grants from the National Science Foundation (Grant numbers CNS-1042260, HRD-0833504, and CNS-1042260). Included is a rich collection of questions and answers, case studies, and promising practices related to individuals with disabilities and their pursuit of education and careers. Below is a sample of titles, case studies, and promising practices included in the CUDE Knowledge Base. To search the Knowledge Base for these and other articles on universal design, visit *www.uw.edu/doit/CUDE/kb.html* and select the Search Knowledge Base button on the left side of the screen.

- A Smart Board in the Classroom: A Promising Practice for Engaging Students
- *AccessCollege*: A Promising Practice in Making Postsecondary Institutions Welcoming and Accessible to Students with Disabilities
- Accessibility Reviews: A Promising Practice to Improve the Accessibility of Local Science Education Programs
- *AccessIT* Web Design & Development: A Promising Practice in Integrating Accessibility Topics into Curriculum
- *AccessLibraries*: A Promising Practice for Promoting the Accessibility of Libraries
- Asynchronous Instruction: A Promising Practice Using Online Access
- Classroom Performance System: A Promising Practice in Engaging All Students
- DASA and Campus Accessibility: A Promising Practice of a Student Organization
- *DO-IT Admin*: A Promising Practice in Making Student Services Accessible to Students with Disabilities
- *DO-IT Prof*: A Promising Practice in Making Postsecondary Instruction Accessible to Students with Disabilities
- Faculty Learning Communities: A Promising Practice in Faculty Development
- Fife School District: A Promising Practice to Maximize Outcomes of Professional Development for Teachers
- GALL Laboratory: A Promising Practice in Applying Problem-Based Learning

- Homeland Security 508 Compliance Office: A Promising Practice in Promoting Accessible IT
- Integrating Woodshop, Technology and Reading: A Promising Practice in Team-Teaching
- IT + AT: A Promising Practice in Creating a Technology-Rich Experience for All Students
- Landmark College: A Promising Practice on Developing Learning Resources for Students with Learning Disabilities
- MAR*TEC Techno-Briefs: A Promising Practice on Explaining Technology Accessibility to Educators
- MESA: A Promising Practice in Making Math and Science Curriculum Accessible
- OSTA: A Promising Practice of a Professional Organization Promoting Accessible Science
- Purdue University: A Promising Practice in Building Campus-wide Support for Web Accessibility
- RoboBooks: A Promising Practice on Universally Designed Science Materials
- The Signing Science Dictionary Project: A Promising Practice in Creating an Accessible Science Dictionary
- The University of Washington: A Promising Practice in Making Distance Learning Courses Accessible to Students with Disabilities
- The University of Washington: A Promising Practice in User Group Support for Web Accessibility
- Transitional Bridges: A Promising Practice in Using Universal Design and Technology to Promote the Success of Students with Disabilities in STEM
- Accessible Outdoor Table Design: A Case Study in Teaching Design Students to Think Universally
- Balancing Student Needs: A Case Study on Accessibility of Registration Systems
- Distance Learning: A Case Study on the Accessibility of an Online Course
- Electronic Course Reserves: A Case Study on Universal Access to Electronic Information in Academic Libraries
- On the Shelves: A Case Study on Library Access
- Professional Development for Web Accessibility: Case Studies on Higher Education
- Removing Barriers: A Case Study on Classroom Access
- The Equestrian Team: A Case Study on Access to Student Organizations

To add a promising practice or case study to the Knowledge Base, send your submissions to *doit@uw.edu*.

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Websites, Publications, and Videos

This section includes a sample of printed materials, websites, and videos about universal design that can be used in self-study and group training sessions.

COMPREHENSIVE WEBSITES

The following websites include content related to the application of universal design in higher education.

- Center for Universal Design
  www.ncsu.edu/www/ncsu/design/sod5/cud/
- Center for Universal Design in Education
  www.uw.edu/doit/CUDE/
- National Center on Universal Design for Learning
  www.udlcenter.org/aboutudl
- Universal Design for Learning
  www.temple.edu/studentaffairs/disability/faculty-resources/udl.html
- Universal Course Design
  www.eeonline.org/

BOOKS AND COMPREHENSIVE TRAINING MATERIALS

Bowe, F. G. (2000). *Universal design in education: Teaching nontraditional students*. In Burgstahler, S. (Ed.). (2009). *Building the team: Faculty, staff, and students working together—Presentation and resource materials*. Seattle: University of Washington. *www.uw.edu/doit/TeamN/*

Burgstahler, S. (Ed). (2015). Universal Design in Higher Education: From Principles to Practice. 2nd ed. Cambridge, MA: Harvard Education Press.

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Burgstahler, S. (Ed.). (2007). *Building capacity for a welcoming and accessible postsecondary institution*. Seattle: University of Washington. *www.uw.edu/doit/cbiN/*

Burgstahler, S. (Ed.). (2006). *Students with disabilities and campus services: Building the team – Presentation and resource materials*. Seattle: University of Washington. *www.uw.edu/doit/AdminN/*

Gordon, D. T., Gravel, J. W., & Schifter, L. A. (Eds.). 2009. *A policy reader in universal design for learning*. Cambridge, MA: Harvard Education Press.

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Rose, D. H., & Meyer, A. 2002. *Teaching every student in the digital age: Universal design for learning*. Alexandria, VA: Association for Supervision and Curriculum Development.

PUBLISHED ARTICLES

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Q&A'S FROM THE KNOWLEDGE BASE

DO-IT's Center for Universal Design in Education (CUDE) created an online, searchable Knowledge Base as part of several projects funded by the U.S. Department of Education Office of Postsecondary Education (Grant numbers P333A990042, P333A020044, and P333A050064), and expanded through grants from the National Science Foundation (Grant numbers CNS-1042260 and HRD-0833504).

Included is a rich collection of questions and answers, case studies, and promising practices related to individuals with disabilities and their pursuit of education and careers. Below is a small sample of questions included in the CUDE Knowledge Base. To search the Knowledge Base for answers to questions related to universal design, visit *www.uw.edu/doit/CUDE/kb.html.* Under type of article, select Q&A. Using additional search terms can narrow your search. Below are examples of some titles included in the Knowledge Base.

General

- What is the difference between accessible, usable, and universal design?
- What is universal design?

Distance Learning

- What are some of the barriers students with disabilities face in distance learning courses?
- What do distance learning professionals need to know about accessibility?
- What are some steps that distance learning program administrators can take to ensure the accessibility of their courses?
- What are the benefits of universal design of a distance learning course for students without disabilities?
- Where can I find resources for making distance learning courses accessible?
- What are steps a distance learning program can take to assure the accessibility of courses?
- What considerations should be made in order to develop accessible web-based distance learning courses?

Web Accessibility

- Are there resources to help me in planning my web accessibility training?
- Are text-only web pages an accessible alternative?

- Can I make accessible web pages using web authoring tools such as Dreamweaver?
- Does CSS positioning eliminate the need for a "skip navigation" link?
- Does making our school web content accessible mean I cannot use multimedia on my site?
- How can I develop accessible web-based forms?
- How can I make web page navigation accessible?
- How can I select a web accessibility software tool?
- How can I test my website for accessibility?
- How can my educational entity deliver accessible webcasts?
- How do I make websites accessible?
- How do my choice and use of color affect the accessibility of my website?
- How can data tables be made accessible?
- How can educational entities determine if their websites are accessible?
- How does accessible web design benefit all web users?
- How well do screen readers support web accessibility guidelines?
- Is Flash content accessible?
- Is it a good idea to make "skip navigation" links invisible?
- Is it possible to develop an accessible dynamic menu?
- Is Java accessible?
- Is PDF accessible?
- Is XML accessible?
- What access challenges might visitors to a web page experience?
- What is a "skip navigation" link?
- What is the current recommendation for providing long descriptions for complex graphics?
- What is the difference between the W3C guidelines and the Section 508 standards for web accessibility?
- What is Web Accessibility Initiative (WAI)?
- What is wrong with using HTML tables for layout?
- What web accessibility evaluation and repair tools are available?
- Where can I locate the results of studies that test the accessibility of web pages?
- Which educational entities have developed web accessibility policies?
- Which set of web accessibility standards or guidelines should I comply with?
- How do cascading style sheets affect web accessibility?

Other Specific Technologies

- Are chat rooms accessible to people with disabilities?
- Are electronic whiteboards accessible to people with disabilities?
- Are frames accessible?
- Are Personal Digital Assistants (PDAs) accessible?
- Are there standards or guidelines for providing audio description?
- Are there standards or guidelines for providing captions?
- Are touch screens accessible?
- How accessible are Microsoft Word documents?

- How can educational entities plan an accessible video production?
- How can I tell whether a software application is accessible?
- How do courseware products differ on accessibility?
- How do I develop accessible educational software?
- How do I make my online PowerPoint presentation accessible?
- How does accessibility differ across operating systems?
- Is instructional software typically accessible to students with disabilities?
- Is it better to caption or transcribe educational multimedia?
- Is Linux accessible?
- What accessibility features are available within the Macintosh operating system ?
- What accessibility features are provided with the Windows operating system?
- What efforts are computer hardware and software companies making toward making their products accessible?
- What Internet-based communication methods are accessible to people with disabilities?
- What is rich media and how can I learn more about its accessibility?
- What is the difference between open and closed captioning?
- How can publishers create accessible math textbooks?

Student Services, Physical Spaces

- How can a financial aid office make services accessible to a student who is blind or has low vision?
- How can I communicate with colleagues regarding making our library accessible to patrons with disabilities?
- How can our career services office work with employers to ensure program access to students with disabilities?
- How can principles of universal design be used to construct a computer lab?
- How can printed resources in libraries be made accessible?
- How can student services offices make campus events accessible to participants with disabilities?
- How can we create more accessible campus tours?
- What accessibility issues should I address when planning student events?
- What are issues related to the accessibility of a library facility?
- Are there standards for developing or purchasing accessible fax machines, photocopiers, and other office equipment?
- How do cascading style sheets affect web accessibility?
- What is the difference between open and closed captioning?
- How can publishers create accessible math textbooks?

CONTRIBUTE TO THE KNOWLEDGE BASE

Submit questions you would like added to the Knowledge Base to *doit@uw.edu*.

CUDE PUBLICATIONS

The Center on Universal Design in Education, hosted by DO-IT, maintains a collection of free publications and videos that are designed for self-instruction and for use as handouts in presentations. Publications are available in printable (PDF) and accessible (HTML) formats and videos include captions and audio description. Permission is granted to copy these materials for educational, noncommercial purposes provided the source is acknowledged. In the following list of publications, those labeled "publication and video," include a video presentation with the same title.

- *Universal Design in Postsecondary Education: Process, Principles, and Applications*
- *Self-Examination: How Accessible Is Your Campus?*

UD of Instruction

- *Equal Access: Universal Design of Distance Learning*
- *Equal Access: Universal Design of Instruction* (publication and video)
- *Universal Design of Instruction Definition, Principles, and Examples*
- *Equal Access: Universal Design of an Academic Department*

UD as a Topic of Instruction

- *Universal Design of Web Pages in Class Projects*

UD of Student Services

- *Equal Access: Universal Design of Student Services* (publication and video)
- *Equal Access: Universal Design of Advising*
- *Equal Access: Universal Design of Career Services*
- *Equal Access: Universal Design of Financial Aid*
- *Equal Access: Universal Design of Housing and Residential Life*
- *Equal Access: Universal Design of Libraries*
- *Equal Access: Universal Design of Recruitment and Undergraduate Admissions*
- *Equal Access: Universal Design of Registration*
- *Equal Access: Universal Design of Student Organizations*
- *Equal Access: Universal Design of Tutoring and Learning Centers*

UD of Technology

- *Access to Technology in the Workplace: In Our Own Words* (publication and video)
- *World Wide Access: Accessible Web Design* (publication and video)
- *Web Accessibility: Guidelines for Administrators*

UD of Physical Spaces

- *Equal Access: Universal Design of Physical Spaces*
- *Equal Access: Universal Design of Computer Labs*
- *Making Science Labs Accessible to Students with Disabilities*

UD of Professional Organizations, Projects, Conference Exhibits, and Presentations

- *Equal Access: Universal Design of Conference Exhibits and Presentations*
- *Equal Access: Universal Design of Professional Organizations*
- *Equal Access: Universal Design of Your Project*
- *Broadening Participation in Science and Engineering by Welcoming Participants with Disabilities*

VIDEO PRESENTATIONS

The following video presentations are freely available online. They are useful for self-instruction and professional development.

- *Best Practices Through Universal Design for Learning*
  www.youtube.com/watch?v=j7eUf_7dZVM
- *Equal Access: Student Services*
  www.uw.edu/doit/Video/index.php?vid=11
- *Equal Access: Universal Design of Computer Labs*
  www.uw.edu/doit/Video/index.php?vid=12
- *Equal Access: Universal Design of Instruction*
  www.uw.edu/doit/Video/index.php?vid=13
- *Real Connections: Making Distance Learning Accessible to Everyone*
  www.uw.edu/doit/Video/index.php?vid=22
- *Self-Examination: How Accessible is Your Campus*
  www.uw.edu/doit/Video/index.php?vid=37
- *Universal Design*
  www.youtube.com/watch?v=4FE1CLS7i3k
- *Universal Design Applications in Biology*
  www.uw.edu/doit/RDE/udl_videos.html
- *Universal Design for Learning*
  connect.csumb.edu/udl1
- *Universal Design for Learning: Cases Stories*
  elixr.merlot.org/case-stories/understanding--meeting-students-needs/universal-design-for-learning-udl?noCache=920:1306947204
- *Universal Design and Online Accessibility*
  www.youtube.com/watch?v=zYFrCXATXLI
- *Universal Learning Design: Empowering the Next Generation*
  www.youtube.com/watch?v=7SG1IwzHhiU
- *Why Universal Design in an Educational Setting?*
  www.youtube.com/watch?v=aYg7NtDHoEA
- *World Wide Access: Accessible Web Design*
  www.uw.edu/doit/Video/index.php?vid=35

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