

Instructor Contact Information

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Course Meeting Times and Dates

Dates: September 30th to December 16th

Day: Tuesday and Thursday

Time: 3:00 - 4:00 pm CST
(Chicago, IL local time)

Course Technology

Slides and Text Chat: HTML Web Browser (i.e. Internet Explorer, Opera, Mozilla, Apple Safari)

Audio: Real Media Player

Great Lakes ADA and Accessible Information Technology Center

The Great Lakes Center was founded in 1991 and is one of 10 national centers established by the US Department of Education, National Institute on Disability Rehabilitation and Research (NIDRR) to provide technical assistance regarding the ADA. The Great Lakes Center serves the States of Illinois, Indiana, Michigan, Minnesota, Ohio and Wisconsin. Services include operation of an 800 number for technical assistance and dissemination of information regarding the ADA through training and direct mail. In addition, the Center has expanded its mission to include issues related to the use and acquisition of accessible information technology and its impact on individuals within a variety of settings, including education, business and government. The Center consistently ranks the highest for volume of calls and number of individuals trained among the 10 centers nationally.

Voice/TTY: 800-949-4232

FAX: 312-413-1856

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On-Line Course *Designing Universally Accessible Web Resources*



**September 30th to December 16th
2004**

**Instructor
Jon Gunderson, Ph.D., ATP**

**Sponsored by
Division of Rehabilitation – Education Services
College of Applied Life Studies
University of Illinois at Urbana/Champaign
And
Great Lakes ADA and Accessible IT Center
Department of Disability and Human
Development
University of Illinois at Chicago
www.adagreatlakes.org**

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Problems of Web Design

Traditional web design focuses on backward compatibility with legacy graphical browser technology and assumes users view information on 800x600 pixel graphical displays. In reality people are using the web with a wider range of browsing technologies and accessibility to people with disabilities is increasingly more important web design issue. For example, LCD technology is creating displays with very high pixel densities (<.20mm dot pitch). Web pages designed using 800x600 pixel display model often with images used to stylize text are slowly shrinking in size and readability as pixel densities increase. People are also using a more diverse set of graphical web browsers, including Opera, Mozilla and Apple Safari. The use of non-graphical web browsers is also increasing with the use of voice output telephone browsers and small screen personal digital assistants (PDA) which use voice recognition, touch screens and small keyboards for human input and control.

How do you design web resources to meet the needs of all these different technologies?

Universal Design

Universal design focuses on making web resources compatible with the widest range of web browsing technologies which can also easily adapt to the needs and capabilities of users through the use of web standards. Web standards are all about the concept of “interoperability”, the ability of people to access and exchange information on a wide range of computing technologies and operating systems. The use of universal design principles makes web resources more accessible to people with disabilities, which results in all users having more choices and control over how they view and use web resources. Users with visual impairments can easily increase font size using the text scaling features of browsers. People who want to view two different web pages side by side can change the widow width of their browser and content re-flows to fit the size of the window. A PDA user can apply a user style sheet to view only the headings of a web page to get an overview of the topics, without having to do endless scrolling through text on a small screen.

Course Outline

Course Topics:

- Alternative views of the web
- Web Standards
- Web accessibility standards
- Design vs. repair for accessibility
- Creating Structure and Layout
- Using Cascading Style Sheets
- Scripting alternatives for styling
- Multi-Media
- MS Office, PDF and Flash

Registration Information

Course Rubric: REHAB 711NC

Registration fees: \$349

WWW: <http://www.outreach.uiuc.edu/>
or

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3.2 Continuing education credits are available