Annotated Bibliography of Online Resources

General Resources

Disabilities, Opportunities, Internetworking, and Technology. (2007). [Access STEM Capacity Building Institute](#).

This conference proceedings report from the AccessSTEM Capacity-Building Institute explores the promotion of the participation of traditionally under-represented groups, including persons with disabilities, in STEM education and careers. The report highlights general issues and challenges faced by students with disabilities in STEM.

Disabilities, Opportunities, Internetworking, and Technology. (2011). [STEM and people with disabilities](#).

This video portrays young scientists with disabilities, and explains the importance of the early introduction of STEM in one's education. The video showcases college [and university] preparation programs that expose students to the academic environment.

National Educational Association of Disabled Students. (2010). [Success in STEM: Studying and Pursuing a Science or Technology Career as a Post-Secondary Student with a Disability](#).

This guide profiles scientists with disabilities; describes the rights of a person with a disability in the classroom and workplace; and outlines the importance of advocacy, preparing for the transition to employment, and mentorship.

National Educational Association of Disabled Students. (2012). [Enhancing Accessibility in Post-Secondary Education Institutions: A Guide for Disability Service Providers](#).

This web-based tool was created to build awareness of disability issues within Canadian institutions, as well as share best practices in accessibility and accommodation practices and procedures.

Inclusive Teaching Practice/Universal Design of Instruction

Association of Higher Education and Disability. (2013). [Universal Design](#).

This resource promotes universal design in higher education, provides links to universal design resources, and includes an annotated bibliography of universal design/universal instructional design resources.

Burgstahler, S. (2012). [Universal Design of Instruction (UDI): Definition, Principles, Guidelines, and Examples](#). University of Washington.

This piece describes the seven principles of universal design, and how they can be applied to instructing students with disabilities. The author also defines the concept of universal design of instruction, and offers examples of instructional techniques that employ UDI.

Center on Postsecondary Education and Disability. (2002). [FacultyWare](#). University of Connecticut.

This resource provides a range of information and tools to enhance the design and delivery of instruction for a diverse student body in higher education.

Dawson, T. ed. (2004). [Universal Instructional Design: Creating an Accessible Curriculum](#). Teaching and Learning Services and Access*Ability* Services, University of Toronto Scarborough.

This detailed resource explores Universal Instructional Design in theory and in practice.

Disabilities, Opportunities, Internetworking, and Technology. (2011). [Working Together: Teaching Assistants and Students with Disabilities](#).

This document provides examples of how teaching assistants and course instructors can adapt their lectures and labs for students with various disabilities. It also discusses methods of delivering lecture materials in an accessible format.

University of Guelph. (2003). [Universal Instructional Design](#).

The University of Guelph received funding to review and study the principles of Universal Instructional Design. This site provides useful resources (such as checklists and planning courses) developed from the findings.

Accessible Science Equipment

Disabilities, Opportunities, Internetworking, and Technology. (2011).

This brochure on accessible science equipment showcases the various types of products (such as accessible measuring devices, tactile images, and non-slip mats) that make science labs accessible for students with disabilities.

Built Environment

Institute for Accessible Science. Accessible Biomedical Immersion Laboratory. Purdue University.

This short, online piece describes the construction of ABIL, an accessible science lab. Pictorial descriptions explain the renovation process, and modifications made to the lab.

Student Engagement Programs

Institute for Accessible Science. IAS Summer Undergraduate Research Fellowship Program. Purdue University.

This article focuses on the IAS Summer Undergraduate Research Fellowship Program at Purdue University. The program matches undergraduate students in science programs with researchers in their fields of interest.