



# Student Services

## A Guide to Diagnosed Disorders Learning Disabilities

### Educational Implications

There are many educational implications for students with learning disabilities:

- ✓ Students may demonstrate a significant discrepancy between theoretical understanding and their practical achievements in areas such as labs and field placements
- ✓ They may have well-developed oral communication skills but demonstrate significant deficits in written expression
- ✓ Speed of processing may be slow, so that students cannot keep up to the pace of the class including answering questions or taking succinct notes
- ✓ Lecture material may not be retained, and in testing situations, remembering formulas to solve application questions may be a significant challenge
- ✓ Students may listen to content presented through lectures, understand and retain it, yet reading skills may be deficient
- ✓ Deficits in word recognition, reading speed and vocabulary can, in turn, affect reading comprehension and the ability to deal with large amounts of reading
- ✓ Application courses where spatial reasoning, organization and following a sequence of steps in completing a “hands-on” project may be a challenge
- ✓ Students may misunderstand social cues and find it difficult to communicate their needs with professors and peers

### Instructional Strategies

The following **instructional strategies** are recommended:

- ❖ Introduce a variety of study strategies that will reinforce important concepts
- ❖ Provide feedback such as error analysis of tests
- ❖ Use visuals, demonstrations and practical examples to reinforce theoretical concepts
- ❖ Introduce key concepts and vocabulary at the beginning of new units of study
- ❖ Provide structures such as outlines and advance organizers to lectures
- ❖ Provide reading lists ahead of time
- ❖ Allow time to review and clarify concepts presented in class as well as to answer questions prior to the student starting an assignment or task
- ❖ Give several short assignments rather than one long one
- ❖ Work closely with **AccessAbility Services** to ensure a successful learning experience for the student

### Academic Accommodations

Students with disabilities are expected to accomplish the “core competencies” of their programs. To achieve this, accommodations are provided to minimize or eliminate any disadvantage their disability presents. Accommodations are unique to each individual. **AccessAbility Services** makes these recommendations based on confidential documentation that the student provides to the college. Some of the most commonly provided academic accommodations to students with learning disabilities include:

- A reduced course load
- Provision of a note taker for lectures



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- Digital recording of lectures – Live Scribe/Smart Pen; Note Taking Express; digital recorder; cell phone
- Access to alternative format materials
- Access to a word processor with spell check, thesaurus, grammar check for completion of final copy of written work
- Clarification of information on power point slides, charts and lecture material
- Alternative methods of evaluation, such as point form responses rather than full sentences, in content/theory courses
- Provision of extended time for tests and exams - the amount of extra time is determined by AccessAbility Services but is usually time and a half (1.5 times) allotted
- Use of memory aids or formula cards
- Supplementary oral exams
- Exams may need to be written on a computer with editing functions and/or adaptive software (Dragon Naturally Speaking, Kurzweil, Word Q etc.)
- Use of word processing so marks are not taken off for spelling
- Exams/tests may need to be scribed and written in a quiet writing room
- Clarification of questions on tests/exams
- Use of a calculator on tests/exams

### Overview and Definition

Learning disabilities, while “invisible”, are nevertheless real. Scientific evidence has shown that this type of disability is neurologically-based, permanent in nature and exists across the life span. Various types of learning disorders have been identified, the impact of which varies from mild or moderate to severe. You may observe, in the classroom, individuals who demonstrate academic difficulties that are unexpected and puzzling in light of demonstrating at least average intelligence.

Psychologists and learning disability specialists define learning disabilities as specific impairments in one or more of the following psychological processes related to learning:

- Acquiring, using and understanding verbal and non-verbal symbols of communication
- Language processing (receptive, expressive and pragmatic)
- Memory
- Processing speed
- Visual-spatial processing
- Perceptual-motor integration
- Executive functions (such as self-monitoring and organizational skills)

These types of disabilities can run in families and are **not** due to lack of motivation, poor teaching, second-language or cultural differences. Academic skills that can be affected include reading (decoding and comprehension), written language (both conceptual and the mechanics of writing), oral language (listening, speaking and understanding instructions), math (concepts and computation) and organization/planning skills. Other types of learning disabilities may affect spatial, mechanical abilities, as well as socially-based non-verbal deficits (missing social cues).

Learning disabilities are permanent and affect all aspects of life. Other conditions can co-exist with learning disabilities, for example, an Attention Deficit Hyperactivity Disorder (AD/HD), Autism Spectrum Disorder (ASD) as well as anxiety or depression. As individuals with learning disabilities have generally well-developed intellectual abilities, success at college and/or university is possible if



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compensatory strategies are learned, self-advocacy skills are developed and used and appropriate accommodations and services are put in place for and used by the student.

### **Resources – please see AccessAbility Services for further information**

Learning Disabilities Association of Ontario, 365 Bloor St. East, Suite 1004, Toronto, Ontario, M4W 3L4. (416) 929-4311. [www.ldao.on.ca](http://www.ldao.on.ca)

Learning Disabilities Association of Canada, 323 Chapel St., Suite 200, Ottawa, Ontario. K1N 7Z2. Tel: (613) 238-5721. Fax: (613) 235-5391. <http://www.ldac-taac.ca/>

Additional websites:

Destination Literacy: Identifying and Teaching Adults with Learning Disabilities, published by LDAC (ISBN: 0-919053-62-9). [www.ldonline.org](http://www.ldonline.org)