



Serving Northern
British Columbia

Biology

Library Subject Guide

<http://library.nlc.bc.ca>

Information literacy is a set of abilities requiring individuals to "recognize when information is needed and have the ability to locate, evaluate, and use effectively the needed information."

Association of College and Research Libraries

Biology is a division of the Natural Sciences that deals with the study of life and living things, including their origin, diversity, structure, activities and distribution. Northern Lights College offers a variety of biology courses, such as Introductory Biology I & II, Human Anatomy, Human Physiology and Introduction to Ecology.

Ask a Librarian for assistance in finding relevant books and journal articles and/or if you need help researching a course related topic. The librarian will also provide assistance in using the Library's website, online catalogue, article databases, and the Internet. Contact the librarian directly or use the "Ask a librarian" section on the Library web pages.

Dawson Creek Library
Janet Beavers, Coordinator of Library Services
Phone: (250)-782-5251 (local 1251)
Email: jbeavers@nlc.bc.ca

Fort St. John Library
Dawna Turcotte, Librarian
Phone: (250)-785-6981 (local 2012)
Email: dturcotte@nlc.bc.ca

REFERENCE

Consulting dictionaries, encyclopedias and handbooks can be a useful starting point for learning. Many of these sources provide basic information, overviews of topics, as well as introduce specialized terminology and detailed information. Major reference works are held mainly at the DC and FSJ libraries. Reference librarians on those campuses will research these materials for faculty and students. Simply fill out the "Ask the Librarian" form on the library webpage or contact the library directly. Some titles of interest located in the reference section are:

Dawson Creek Reference Collection

QH 302.5 A23 1995	ABC Biologie. English
QH 302.5 C34 1989	Cambridge dictionary of biology
QH 13 L56	Cambridge dictionary of natural his.
QM 25 M23 1988	Color atlas of human anatomy
QH 302.5 I53 1999	Dictionary of biology
Q 123 D52	Dictionary of physical sciences
QH 302.5 R83 1997	Dictionary of modern biology
QH 540.4 E58	Environmental encyclopedia
QH 302.5 F33 1999	Facts on File dictionary of biology
Q 121 M3 1997 V. 1	McGraw-Hill encyclopedia of science
R 123 R523 1991	Medical terminology with human anat
QM 25 N49 1999	New atlas of human anatomy
QH 302.5 W67 1999	World of biology

Fort St. John Reference Collection

QH 13 L56	Cambridge dictionary of natural history
GN 281 C345	Cambridge ency. of human
QK 642 B69 1996	Color atlas of plant structure
QH 302.5 D53 2000	Dictionary of biology
QH 302.5 I53 1999	Dictionary of biology
QH 302.5 M34 2003	McGraw-Hill dict. of bioscience
QH 302.5 M3	McGraw-Hill dict. of life sciences
QH 540.4 D53 1998	Dict. of ecology & the environ
QH 302.5 R83 1997	Dictionary of modern biology
QH 540.4 E58	Environmental encyclopedia
QH 575 F33 2003	Facts on File dictionary of cell & molec.
QM 23.2 G73 1901	Gray's anatomy
T 11 S386 1994	Scientific style and format
QH 302.5 W67 1999	World of biology

CLASSIFICATION SYSTEM

To assist you in browsing the collection, try the following areas:

Q Science - General	QD Chemistry	QH Natural History, Biology	QK Botany	QL Zoology
QP Physiology	QR Bacteriology	QS Human Anatomy	QU Biochemistry	

LIBRARY CATALOGUE AND ELECTRONIC DATABASES

To find books, journals, and audiovisual materials on your topic, search the library's online **catalogue**. If you are looking for journal articles, search the library's online **journal article indexes & electronic databases**. Use **keywords** to search the online catalogue and/or electronic databases. A keyword is a word or term that best describes the information you are looking for. You can search the library catalogue or an electronic database for either a single keyword or a combination of keywords in order to find articles in an electronic database or books in the online catalogue containing the keyword(s).

Examples of keywords:

adaptation	biological diversity	developmental biology	microbiology
animal behavior	biological evolution	ecology	molecular biology
bacteria	botany	gene expression	reproduction
biochemistry	cell membrane	human anatomy	RNA

PERIODICALS & NEWSPAPERS

The library currently subscribes to several periodicals and newspapers of particular interest to students. To check for campus and holdings search the title in WebCat.

Periodical Title.....	Library Holdings.....	Campus Library
Biodiversity	2000 - current	FSJ
Environments	1999 - current	FSJ
Journal of Wildlife Management	2001 - current	FSJ
Journal of Range Management	1978 - current	FSJ
National Geographic	1957 - current	DC/FSJ
Nature Canada	1988 - current	FSJ
Rangeland Ecology and Management	2005 - current	FSJ
Wildlife Monographs	1976 - present	FSJ

DATABASES & INDEXES

access: <http://nlc.bc.ca/library/articleindexes.php>

Academic Search Premier: Provides coverage for social sciences, humanities, education, computer sciences, arts and literature, medical sciences, and ethic studies. Citations and full text available. 1984-present. Updated monthly.

AccessScience: Provides general science reference offering full text resources updated daily.

Biological and Agricultural Index Plus: Provides citations and some full text in over 368 Biology and Agriculture journals. 1983 – current.

Canadian National Research Council Press Journals: Canadian science journals in earth sciences, biology, forestry, aquatic sciences, chemistry, physics. Fulltext 1977-current

CPI.Q: Provides coverage of current event, health, technology, arts, history, culture, and business. 400 Canadian periodicals with 137 fulltext. 1988-present.

Ingenta: Provides access to over 17,000 scholarly journals in all subject areas – Citations and abstracts.

National Library of Medicine: Citations from over 4,600 worldwide journals currently in 30 languages. Broad coverage.

Science, General: Provides citations on astronomy, agriculture, biology, botany, chemistry, conservation, earth science, forestry, horticulture, medicine, physics and zoology. 1983-present.

WEBSITES

Biochemistry, Microbiology, Molecular Biology, and Genetics

Biointeractive: <http://www.biointeractive.org>

BioChemWeb.org: <http://www.biochemweb.org/>

Biotechnology *Tutorials* Online – U of California Seed Technology Center:

http://sbc.ucdavis.edu/Outreach/Biotechnology_Tutorials_Online.htm

The Biology Project: <http://www.biology.arizona.edu/>

Blazing a Genetic Trail: <http://www.hhmi.org/genetictrail/>

Cells Alive: <http://www.cellsalive.com/>

Gene Gateway: http://www.ornl.gov/sci/techresources/Human_Genome/posters/chromosome/geneguide.shtml

Genome Research and Genetics News: <http://www.nature.com/genomics/>

Glossary of Biochemistry & Molecular Biology: www.portlandpress.com/pp/books/online/glick/default.htm
Human Genome Project Information Resources: http://www.ornl.gov/sci/techresources/Human_Genome/education/education.shtml
Learn Genetics - University of Utah: <http://learn.genetics.utah.edu/>
Metabolic Pathways of Biochemistry: <http://www.gwu.edu/~mpb/>
Molecular Biology *tutorial*: <http://www.rothamsted.bbsrc.ac.uk/notebook/>
The Microbiology Network Home Page: <http://microbiol.org/>
Molecular & Cellular Biology links (Harvard University) <http://www.mcb.harvard.edu/biolinks.html>
NCBI - National Centre for Biotechnology Information (US): <http://www.ncbi.nlm.nih.gov/>
Online Mendelian Inheritance in Man: <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=OMIM>

Ecology/Environment

Climate Change – A Guide to the Information and Disinformation – Society of Environmental Journalists:
<http://www.sej.org/resource/index18.htm>
Ecology WWW page: <http://www.botany.net/Ecology/>
ECOTOX (ECOTOxicology) database: <http://cfpub.epa.gov/ecotox/>
Environmental Conservation Online System (ECOS) – US Fish & Wildlife:
http://ecos.fws.gov/ecos_public/index.do?sessionId=15BD79DBEFBB574D38C46CAB7DD1F9AB
Envirolink: <http://www.envirolink.org/>
World Biomes: <http://www.ucmp.berkeley.edu/glossary/gloss5/biome/index.html>

General

ActionBioscience.org <http://www.actionbioscience.org/>
Access Excellence: health & bioscience: <http://www.accessexcellence.org/>
BioEd Online Teacher Resources: <http://www.bioedonline.org/>
Biology Browser: <http://www.biologybrowser.org/>
Biology Project – University of Arizona: <http://www.biology.arizona.edu/>
Biology Web Site References for Students and Teachers: <http://www.kensbiorefs.com/index.html>
Classification of Living Thing – Palomar District Community College: <http://anthro.palomar.edu/animal/>
Ecological Monitoring and Assessment Program – Environment Canada: <http://www.eman-rese.ca/>
Environment Web Directory: <http://www.webdirectory.com/>
Fealth - Search Engine: <http://www.fealth.com/>
Fire Effects Information – USDA Forest Service: <http://www.fs.fed.us/database/feis/>
Intute: <http://www.intute.ac.uk/>
Invasive and Exotic Species – North America: <http://www.invasive.org/>
National Science Digital Library - NSDL: <http://nsdl.org/>
Nearctica - gateway to the natural science world of North America: <http://www.nearctica.com/>
NBII – National Biological Information Infrastructure: <http://www.nbi.gov>
Omics Gateway: <http://www.nature.com/omics/index.html>
Scirus - Search Engine: <http://www.scirus.com/srsapp/>
The WWW Virtual Library – Biosciences: <http://vlib.org/Biosciences>

Human Biology

Anatomy and Physiology Links – Prince George Community College – great *tutorials!* :
<http://academic.pgcc.edu/~aimholtz/AandP/AandPLinks/ANPLinks.html>
A/P Lab – a website for human anatomy and physiology (U of Wisconsin): <http://bioweb.uwlax.edu/APlab/index.html>
BBC: <http://www.bbc.co.uk/>

- Human Body and Mind (BBC): <http://www.bbc.co.uk/science/humanbody/>
- Science and Nature - BBC: <http://www.bbc.co.uk/sn/>

The Heart: An Online Exploration: <http://www.fi.edu/biosci/heart.html>
Human Anatomy Online - *tutorial*: <http://www.innerbody.com/hm/body.html>
Skull Anatomy *tutorial*: <http://www.gwc.maricopa.edu/class/bio201/skull/skulltt.htm>
UNSW Embryology: <http://embryology.med.unsw.edu.au/>
WebAnatomy Net – online anatomy and physiology Sites: <http://webanatomy.net/>

Online Journals – Full Text

BioMed Central homepage: <http://www.biomedcentral.com/>
Directory of Open Access Journals: <http://www.doaj.org/>
Highwire Press: <http://highwire.stanford.edu/>

Infomine - Biological, Agricultural & Medical Sciences: <http://infomine.ucr.edu/cgi-bin/search?category=bioag>
Public Library of Science (PLoS) Biology: <http://biology.plosjournals.org/periserv/?request=index-html&issn=1545-7885>
Pubmed Central: <http://www.pubmedcentral.nih.gov/>

Online Books - Full Text

BioMed Central: <http://www.biomedcentral.com/inst/gateway/>
Global Environment Outlook 2000 – United Nations: <http://www.grida.no/geo2000/index.htm>
NCBI Bookshelf - the National Center for Biotechnology Information. Searchable full-text biomedical books: <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=Books>
On-Line Biology Book: <http://www.emc.maricopa.edu/faculty/farabee/BIOBK/BioBookTOC.html>
University of Wisconsin digital Collections: <http://uwdc.library.wisc.edu/collections.html>

- Ecology and Natural Resources Collection: <http://digicoll.library.wisc.edu/EcoNatRes/About.shtml>
- History of Science and Technology: <http://digicoll.library.wisc.edu/HistSciTech/>

Plant Biology (Botany)

Agroforestry Database: <http://www.worldagroforestry.org/Sites/TreeDBS/aft.asp>
Canadian Poisonous Plants Information System: http://www.cbif.gc.ca/pls/pp/poison?p_x=px
Flora of North America: <http://hua.huh.harvard.edu/FNA/>
Forest Agnic: <http://forestry.lib.umn.edu/agnic/>
IDB - Internet Directory for Botany: <http://www.botany.net/IDB/>
Natural Resources Canada: <http://www.nrcan-rncan.gc.ca/com/>

- Canada's Forests: <http://canadaforests.nrcan.gc.ca/>
 - State of Canada's Forests – free downloadable: http://bookstore.cfs.nrcan.gc.ca/detail_e.php?recid=12586924

Plant Biotech *Tutorial*/URLs: http://www.arc.losrios.edu/~biotech/resources/topicseries/methods/plantbiotech_urls.htm
Plant Pathology Internet Guidebook: <http://www.pk.uni-bonn.de/ppiqb/ppiqb.htm>
Plants Database from US Natural Resources Conservation Service: <http://plants.usda.gov/>
Scott's Botanical Links: <http://www.ou.edu/cas/botany-micro/bot-linx/>

Reference

Biotech – life sciences resources and reference tools: <http://biotech.icmb.utexas.edu/>

- Life Sciences Dictionary: <http://biotech.icmb.utexas.edu/pages/dictionary.html>

Canada's Aquatic Environments: <http://www.aquatic.uoquelf.ca/>
Garden Web Glossary of Botanical Terms: <http://glossary.gardenweb.com/glossary/>
A Hypermedia Glossary of Genetic Terms: <http://www.weihenstephan.de/~schlind/genglos.html>
NatureServe Explorer – encyclopedia of life - over 65,000 plants, animals, and ecosystems of the US and Canada: <http://www.natureserve.org/explorer/>

Taxonomy

Eunis Database 2 – European Nature Information System: <http://eunis.eea.eu.int/index.jsp>
Species 2000 - enumerating all known species of organisms on Earth - animals, plants, fungi and microbes) as the baseline dataset for studies of global biodiversity: <http://www.sp2000.org/>
Taxonomy Browser - NCBI: <http://www.ncbi.nlm.nih.gov/Taxonomy/taxonomyhome.html/index.cgi>
Tree of Life Web Project: <http://tolweb.org/tree/>

- Life on Earth: <http://tolweb.org/tree?group=Life&contgroup=>

World Biodiversity database: <http://www.eti.uva.nl/tools/wbd.php>
World Wildlife fund: <http://worldwildlife.org/>

- Wildfinder - maps the world's species: <http://www.worldwildlife.org/wildfinder/searchBySpecies.cfm>

Zoology & Biodiversity

AmphibiaWeb: <http://amphibiaweb.org/>
Biology Web Site References for Students and Teachers: <http://www.kensbiorefs.com/index.html>

- Animal Anatomy & Physiology: <http://www.kensbiorefs.com/NewAnimAnatPhys.html>

Animal Diversity Web: <http://animaldiversity.ummz.umich.edu/site/index.html>
Animal Info - Information on Endangered Mammals: <http://www.animalinfo.org/>
AviBase – World bird database: <http://www.bsc-eoc.org/avibase/avibase.jsp>
Biodiversity Hotspots: <http://www.biodiversityhotspots.org/xp/Hotspots>
Bugbios – Insects on the web: <http://www.insects.org/>
BugGuide.net – Canada & US: <http://bugguide.net/node/view/15740>

Canadian Biodiversity: Species - McGill University. <http://www.canadianbiodiversity.mcgill.ca/english/species/index.htm>
Entomology: Smithsonian National Museum of Natural History: <http://entomology.si.edu/>
FIGIS – Fisheries Global Information System: <http://www.fao.org/figis/servlet/static?dom=collection&xml=dias.xml>
ICBN – World Conservation Union: <http://www.iucn.org/>

- 2006 IUCN Red List of Threatened Species

National Wildlife Federation: <http://www.enature.com/fieldguides/>

- eNature Field Guides: <http://www.enature.com/home/>

NatureServe: <http://www.natureserve.org/>
National Wildlife Research Center – USDA: <http://www.aphis.usda.gov/ws/nwrc/>
Net Frog - *tutorial*: <http://curry.edschool.virginia.edu/go/frog/>
Nomina Insecta Nearctica - "... checklist of the approximately 90,000 species of insects of North America north of Mexico":
<http://www.nearctica.com/nomina/main.htm>
Species at Risk – Environment Canada: <http://www.speciesatrisk.gc.ca/>
US Fish and Wildlife Service:

- Search engine for the USF & WS's image collection. <http://images.fws.gov/>
- Publications Online: <http://training.fws.gov/library/pubs3.html>

Virtual Frog Dissection Kit: <http://froggy.lbl.gov/virtual/>
Wild Species 2000 – general status of species in Canada: http://www.wildspecies.ca/wildspecies2000/en/home_E.html

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