



Library Services Course Guide ~ Biology

About our Course Guides:

Each page is dedicated to the areas covered by the courses offered here at RPCC. Each page lists various types of resources, including printable guides and handouts, suggested databases for research, selected e-books and books in our collection, and links to relevant online resources.

For more information on course offerings, visit the following web pages:

Catalogs: <http://www.rpcc.edu/catalogs.cfm>

Technical Programs: <http://www.rpcc.edu/technicalPrograms.cfm>

Suggested Databases:

Click on any **Databases** link on the Library website to access these. Please note that access from off-campus will require your Library User ID (or Alt ID) & PIN, or, for some resources, a different User ID & Password. See our page on [Using Online Library Resources From Home](#).

- **Academic Search Complete**
- **Biography Resource Center**; searchable by name, occupation, etc.
- **Biological Abstracts**; note that this database is not FULL-TEXT.
- **Environment Index**; note that this database is not FULL-TEXT.
- **JSTOR**
- **Oxford Reference Online**
- **Science and Technology Collection**

Selected E-Books:

The **eBook Collection** from EBSCOhost is our largest provider of e-books (electronic copies of printed books PDF format), available 24 hours a day, 7 days a week. **eBook Collection** has an easy-to-use search interface. You will be prompted to login with your 12-digit Library User ID to access these e-books from off-campus. Please see our Tutorials on eBook Collection from EBSCOhost for more information.

General Reference

- *Biology Demystified*, 2003, by Dale Pierre Layman.
- *Diversity of Life: The Illustrated Guide to the Five Kingdoms*, 1999, by Lynn Margulis.
- *The Hutchinson Pocket Dictionary of Biology*, 2004.
- *Thinking About Biology*, 2003, by Stephen Webster.

History of Biology & Biologists

- *Biology: The People Behind the Science*, 2006, by Katherine E. Cullen.
- *Genesis: the Evolution of Biology*, 2003, by Jan Sapp.
- *Nobel Prize Women in Science; Their Lives, Struggles, and Momentous Discoveries*, 1998, by Sharon Bertsch McGrayne.

- *Shaping Biology; The National Science Foundation and American Biological Research, 1945-1975*, 2000, by Toby A Appel.

Anatomy & Physiology

- *Anatomy and Physiology: An Easy Learner*, 1994, by Ethel Sloane.
- *The Cambridge Dictionary of Human Biology and Evolution*, 2005, by Larry L. Mai.
- *Human Anatomy and Physiology: Based on Schaum's Outline of Theory and Problems of Human Anatomy and Physiology*, 2001, by Patricia Brady Wilhelm.

Ecology

- *A Citizen's Guide to Ecology*, 2003, by Lawrence B. Slobodkin,.
- *Environmental Change: The Evolving Ecosphere*, 2003, by Richard J. Huggett.
- *Theoretical Ecology: Principles and Applications*, 3rd Edition, 2007, by Robert M. May.

Human Nutrition

- *Clinical Nutrition of the Essential Trace Elements and Minerals: The Guide for Health Professionals*, 2000, by John D. Bogden.
- *Dr. Jensen's Guide to Body Chemistry & Nutrition*, 2000, by Bernard Jensen.
- *Introduction to Clinical Nutrition*, 1998, by Vishwanath M. Sardesai.

Microbiology

- *Applied Microbiology*, (Series: *Focus on Biotechnology*, v. 2) 2001, by Alain Durieux.
- *Microbiology Demystified*, 2005. Betsy, Tom.
- *Microbiology: PreTest Self-Assessment and Review*, 10th Edition, 2002, by Richard C. Tilton.

Visit our eBook Collections, <http://library.rpcc.edu/ebooks.html>, for links to eBook Collection from EBSCOhost and other e-book collections. Please note that books that are still protected by copyright may not be available online in full-text from the free sources.

Locations of Biology Resources in the Library:

Biology-related topics can be found in resources located in these Library of Congress call number ranges:

- **QH1 to QH705.5** - Natural history - Biology
 - **QH301 to QH705.5** - Biology (General)
 - **QH359 to QH425** - Evolution
 - **QH540 to QH549.5** - Ecology
- **QK1 to QK989** - Botany
- **QL1 to QL991** - Zoology
- **QM1 to QM695** - Human anatomy
- **QP1 to QP981** - Physiology
- **QR1 to QR502** - Microbiology
- **RA601 to RA602** - Medicine: Public health. Food and food supply in relation to public health
- **RA773 to RA788** - Medicine: Personal health and hygiene, including nutrition

Selected Books in the Library:

General Reference

- *Encyclopedia of Life Sciences*, 1996.
Call number: **QH 302.5 .E53 1996 REF**, in 10 volumes.
- *The Facts on File Dictionary of Biology*, 3rd Edition, 1999.
Call number: **QH 302.5 .F38 1999 REF**

- *Magill's Survey of Science: Life Science Series*, 1991.
Call number: **QH 307.2 .M34 1991 REF**, in 7 volumes.
- *Oxford Dictionary of Biology*, 4th Edition, 2000.
Call number: **QH 302.5 .D5 2000**
- *Using the Biological Literature: A Practical Guide*, 2nd Edition, 1995.
Call number: **QH 303.6 .D38 1995**

History of Biology & Biologists

- *Biologists and the Promise of American Life: From Meriwether Lewis to Alfred Kinsey*, 2000.
Call number: **QH 305.2 .U6 P38 2000**
- *A History of the Life Sciences*, 1994
Call number: **QH 305 .M22 1994**
- *Picture Control: the Electron Microscope and the Transformation of Biology in America, 1940-1960*, 1997
Call number: **QH 212 .E4 R37 1997**

Anatomy & Physiology

- *Atlas of the Visible Human Male: Reverse Engineering of the Human Body*, 1998.
Call number: **QM 25 .S74 1998**
- *Grant's Atlas of Anatomy*, 9th Edition, 1991.
Call number: **QM 25 .A38 1991**
- *Human Anatomy and Physiology: Based on Schaum's Outline of Theory and Problems of Human Anatomy and Physiology*, 2001.
Call number: **QP 41 .H927 2001**

Ecology

- *Dictionary of Ecology*, 3rd Edition, 1998.
Call number: **QH 540.4 .C65 1998**
- *Encyclopedia of Environmental Biology*, 1995.
Call number: **QH 540.4 .E52 1995 REF**, in 3 volumes.
- *Essentials of Conservation Biology*, 2nd Edition, 1998.
Call number: **QH 75 .P752 1998**
- *Habitats and Ecosystems: An Encyclopedia of Endangered America*, 1999.
Call number: **QH 76 .C73 1999 REF**

Human Nutrition

- *CRC Desk Reference for Nutrition*, 1998.
Call number: **QP 141 .B523 1998 REF**
- *Encyclopedia of Human Nutrition*, 1999.
Call number: **QP141 .E526 1999 REF**, in 3 volumes.
- *Taking Sides: Clashing Views on Controversial Issues in Food and Nutrition*, 2004.
Call number: **RA 784 .T35 2004**

Microbiology

- *Bergey's Manual of Determinative Bacteriology*, 9th Edition, 1994.
Call number: **QR 81 .A5 1994**
- *Brock Biology of Microorganisms*, 9th Edition, 2000.
Call number: **QR 41.2 .B77 2000**

- *Illustrated Glossary of Protoctista*, 1993.
Call number: **QR 74.5 .I44 1993**
- *Microbes and Man*, 4th Edition, 2000.
Call number: **QR 56 .P58 2000**

Selected Journals, Magazines & Newspapers:

Print periodicals are located in C-119 (LRC)

- *Inside Smithsonian Research*
- *Natural History*
- *Nature* (back issues)
- *Scientific American*
- *Smithsonian*
- *Water Marks: Louisiana Coastal Wetlands Planning, Protection and Restoration News*

Online Resources:

The following resources have been reviewed and selected in collaboration with relevant faculty. Please note that websites outside of RPCC are beyond our control. We strive to ensure that the sites that we recommend are reliable and valid sources of high-quality information. Please let us know if you find any consistently dead links.

General Reference

- **Animated Tutorials: General Biology,**

<http://www.sumanasinc.com/webcontent/animations/biology.html>

Animated multimedia tutorials with quizzes on key concepts in biology.

- **Encyclopedia of Life,**

<http://www.eol.org/home.html>

“(EOL) is an ambitious project to organize and make available via the Internet virtually all information about life present on Earth.” ultimately, serving as an online reference source and database for every one of the 1.8 million known species. This resource is constantly being developed. Check back to see what’s new.

- **On-Line Biology Book,**

<http://www.emc.maricopa.edu/faculty/farabee/BIOBK/BioBookTOC.html>

"An excellent Online Biology Textbook designed for the Internet. It is a virtual textbook that provides information on topics such as basic chemistry, cell biology, thermodynamics, enzymology, metabolism, protein synthesis, genetics, bacteriology, botany, zoology, paleobiology, evolution, diversity, and ecology." --MERLOT description.

- **PBS: Science & Nature and Health**

<http://www.pbs.org/topics/science-nature/>

<http://www.pbs.org/topics/health/>

For documentaries on topics of Science & Nature, and Health issues.

- **Tree of Life Web Project,**

<http://tolweb.org/tree/phylogeny.html>

"A collection of information about biodiversity compiled collaboratively by hundreds of expert and amateur contributors. Its goal is to contain a page with pictures, text, and other information for every species and for each group of organisms, living or extinct."

- **A Tree of Life,**

<http://www.sciencemag.org/feature/data/tol/>

From the journal, **Science Tree of Life Special Issue**, this online version of the diagram includes links to a variety of resources, including definitions, photos, etc., from various sources.

History of Biology & Biologists

- **Historical Anatomies on the Web**

www.nlm.nih.gov/exhibition/historicalanatomies/browse.html

Offers images from selected anatomical atlases from the collection of the National Library of Medicine.

- **History of Biology**

<http://www.ucmp.berkeley.edu/help/topic/history.html>

Lists biographies of selected biologists and paleontologists, maintained by the University of California Museum of Paleontology, Berkeley.

- **Nobel Prize in Physiology or Medicine**

http://nobelprize.org/nobel_prizes/medicine/

Includes biographical information on Nobel Laureates in medicine from 1901 to the present.

Anatomy & Physiology

- **The eSkeletons Project,**

<http://www.eskeletons.org/>

"Devoted to the study of human and primate comparative anatomy. It offers a unique set of digitized versions of skeletons in 2-D and 3-D in full color, animations, and much supplemental information."

- **Visible Human Project,**

http://www.nlm.nih.gov/research/visible/visible_human.html

From the **National Library of Medicine**, <http://www.nlm.nih.gov>, is the creation of complete, anatomically detailed, three-dimensional representations of the normal male and female human bodies."

- **WebAnatomy,**

<http://msjensen.cehd.umn.edu/webanatomy/>

"A collection of study aids for entry-level anatomy and physiology students" from the University of Minnesota; includes self tests, timed tests, interactive activities and an image bank, along with links to other numerous resources.

Ecology

- **Audubon**

<http://www.audubon.org>

Audubon's "mission is to conserve and restore natural ecosystems, focusing on birds, other wildlife, and their habitats for the benefit of humanity and the earth's biological diversity."

- **IUCN Red List of Threatened Species,**

<http://www.iucnredlist.org/>

From the World Conservation Union, which fosters research and understanding of the world's ecosystems and the threats that they face.

- **Smithsonian Conservation Biology Institute,**

http://nationalzoo.si.edu/SCBI/default.cfm?hpout=science_link&xtr=

From **Smithsonian National Zoological Park**, <http://nationalzoo.si.edu/>, "serves as an umbrella for the Smithsonian's global effort to conserve species and train future generations of conservationists."

- **U. S. Fish & Wildlife Service,**

<http://www.fws.gov/>

Offers information and resources on conservation, endangered species, habitats, etc.; includes an extensive image database.

Human Nutrition

- **Dietary Guidelines for Americans**

<http://www.health.gov/dietaryguidelines/>

From the U. S. Department of Health & Human Services.

- **Food and Nutrition Collection,**

of the USDA's **National Agriculture Library**, <http://www.nal.usda.gov/index.shtml>; lists numerous nutrition related resources.

- **MedlinePlus: Nutrition,**

<http://www.nlm.nih.gov/medlineplus/nutrition.html> from the **National Library of Medicine**,

<http://www.nlm.nih.gov/>, includes links to various resources, such as research articles, related articles, tools, etc.

Microbiology

- **American Society for Microbiology**

<http://asm.org/>

The ASM offers numerous resources including online publications, news, articles, and images. Some resources may require membership/login.

- **BMC Microbiology**

<http://www.biomedcentral.com/bmcmicrobiol/>

This is an open access journal publishing original peer-reviewed research articles" in microbiology.

- **CELLS alive!**

<http://www.cellsalive.com/index.htm>

Includes numerous interactive illustrations and animations, video, and more.

- **Todar's *Online Textbook of Bacteriology***

<http://www.textbookofbacteriology.net/index.html>

This is an online textbook by Kenneth Todar, Ph.D., from the University of Wisconsin.