



Library Services Course Guide ~ Biology

Courses listed in the RPCC General Catalog:

BIOL 1010: General Biology I
BIOL 1010L: General Biology Laboratory I
BIOL 1020: General Biology II
BIOL 1020L: General Biology Laboratory II
BIOL 1050: Introduction to Anatomy and Physiology
BIOL 1050L: Introduction to Anatomy and Physiology Laboratory
BIOL 1200: Principles of Biology I
BIOL 1210: Principles of Biology II
BIOL 2110: General Microbiology
BIOL 2110L: General Microbiology Laboratory
BIOL 2300: General Ecology
BIOL 2500: Human Anatomy & Physiology I
BIOL 2500L: Human Anatomy & Physiology Lab I
BIOL 2510: Human Anatomy & Physiology II
BIOL 2510L: Human Anatomy & Physiology Lab II
BIOL 2600: Fundamentals of Human Nutrition

Suggested Databases:

Click on any **Databases** link on the Library website to access these. Please note that access from off-campus will require your User ID or Alt ID & PIN.

- **Academic Search Complete**
- **Biological Abstracts**; note that this database is not FULL-TEXT.
- **Environment Index**; note that this database is not FULL-TEXT.
- **Science and Technology Collection**

Selected NetLibrary E-books:

NetLibrary - Provides access to over 59,000 ebooks (electronic copies of printed books, often in PDF format) 24 hours a day, 7 days a week. NetLibrary has an easy to use search interface. (You will need a NetLibrary account to access these e-books from off-campus. Please see the tutorial, Accessing & Using NetLibrary 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.

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.

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**

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**

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.

- **BiologyBrowser,**

<http://www.biologybrowser.org/> “produced by Thomson Reuters, is a free website offering resources for the life sciences information community.

- **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.

- **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.

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

- **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.

- **Terrestrial Ecoregions of the World,**

<http://www.nationalgeographic.com/wildworld/terrestrial.html>

From **National Geographic**, <http://www.nationalgeographic.com/index.html> ; identifies regions based on shared ecological features, climate and plant and animal populations.

- **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

- **The Big Picture Book of Viruses**

http://www.virology.net/Big_Virology/BVHomePage.html

In spite of it's juvenile-sounding title, this resource offers a catalog of virus images including detailed descriptions, searchable by virus name or family, genetic structure, host, as well as other options. This resource also includes links to other related resources.

- **CELLS alive!**

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

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

- **Microbes.info**

www.microbes.info

The Microbiology Information Portal, lists numerous microbiology resources, including databases, images collections, etc.