

## **Hanover College: Duggan Library**

### ***Weblinks by Subject: Natural Sciences***

#### ***Science and Medicine***

##### **Biology/Biochemistry and Environmental Studies:**

**[Biodiversity Hotspots](http://www.biodiversityhotspots.org/xp/Hotspots)** (<http://www.biodiversityhotspots.org/xp/Hotspots>)

This site focuses on 25 critically threatened ecosystems (i.e. hotspots). Information, descriptions, bibliographies, related links, glossary terms, and maps add to the richness of this clearinghouse site.

**[BiosciEdNet](http://www.bioscienet.org/portal/)** (<http://www.bioscienet.org/portal/>)

"BEN" is a portal to reviewed resources covering 51 biological sciences topics, be it an image, a course, or a journal article. Registration required.

**[BIOSIS Internet Resource Guide for Zoology](http://www.biosis.org/free_resources/resource_guide.html)**

([http://www.biosis.org/free\\_resources/resource\\_guide.html](http://www.biosis.org/free_resources/resource_guide.html))

Search or browse major zoological categories on this web site maintained by BIOSIS. The breadth of coverage makes this site as good as any as a gateway to internet-based zoology information.

**[Birdnet: Recent Ornithological Literature \(ROL\)](http://www.nmnh.si.edu/BIRDNET/ROL/)**

(<http://www.nmnh.si.edu/BIRDNET/ROL/>)

Compilation of citations and abstracts from the worldwide scientific literature pertaining to the science of ornithology

**[Ergito Glossary](http://www.ergito.com/glossary.jsp)** (<http://www.ergito.com/glossary.jsp>)

Search a life sciences glossary at Ergito. Other information is available by clicking on their "home" link but registration is required to access other aspects of the web site.

**[National Library for the Environment](http://www.ncseonline.org/NLE/)** (<http://www.ncseonline.org/NLE/>)

From the National Council for Science and the Environment is this portal to web-based environmental information. The heart of this site is the full text access to about 600 or so Congressional Research Service Reports that deal with environmental issues. External links provide a gateway to further subject matter on the Internet.

**[Plants National Database](http://plants.usda.gov/index.html)** (<http://plants.usda.gov/index.html>)

Fact sheets, images, checklists, offsite links, and more from our own national plant database provided by the US Dept of Agriculture.

##### **Chemistry:**

[Chemistry.org](http://www.chemistry.org/) (<http://www.chemistry.org/>)

The web site to the American Chemical Society. Links to many excellent free (as well as proprietary information). Remember, the Duggan Library subscribes to all ACS journals full text online.

[Information Retrieval in Chemistry WWW Server](http://macedonia.chem.demokritos.gr/)

(<http://macedonia.chem.demokritos.gr/>)

A comprehensive index to chemistry sites around the world. In conjunction with the Sheffield Chemdex site, users should be able to find any chemistry site on the Internet that is worth finding.

[IUPAC Compendium of Chemical Terminology](http://www.chemsoc.org/cgi-shell/empower.exe?DB=goldbook) (<http://www.chemsoc.org/cgi-shell/empower.exe?DB=goldbook>)

From the International Union of Pure and Applied Chemistry (who is in the business of standardizing the language to describe the science of chemistry), this online chemistry "dictionary" will be helpful in understanding unfamiliar terms.

[Organic Chemistry Resources Worldwide](http://www.organicworldwide.net/) (<http://www.organicworldwide.net/>)

As the site title implies, those in need of organic chemistry information will find here a comprehensive and intuitive resource. Links are logically organized and generally are to high quality/reputable sources.

[Sheffield Chemdex](http://www.chemdex.org/) (<http://www.chemdex.org/>)

More than 7,000 chemistry-specific links organized in 13 categories. Sub-categories include an Educational Resources folder.

[WebElements](http://www.webelements.com/webelements/scholar/) (<http://www.webelements.com/webelements/scholar/>)

The scholar edition of this online periodic table. Clicking on an element will allow you to access in-depth information such as that element's history, physical, electrical, and nuclear data, as well as compounds, uses, and much more. This site incorporates extensive graphics/multimedia, but in an appropriate manner. Perhaps the best of its type on the Web.

### **Computer Science:**

[Compuscience](http://www.zblmath.fiz-karlsruhe.de/COMP/quick.html) (<http://www.zblmath.fiz-karlsruhe.de/COMP/quick.html>)

An online index to the computer science and computer technology literature.

[Computer History Museum](http://www.computerhistory.org/) (<http://www.computerhistory.org/>)

Online exhibits and collections, established to preserve the history of the information age.

[Computer Science](http://library.albany.edu/subject/csci.htm) (<http://library.albany.edu/subject/csci.htm>)

Twenty-three links to computer resources to be found on the Internet. Categories include Compilers & Interpreters, Algorithm Collections, and Software along with the more expected such as Bibliographic Databases & Indexes, Dictionaries & Encyclopedias, and Electronic Journals.

## **Geology:**

**[Climate Diagnostics Center](http://www.cdc.noaa.gov/PublicData/data_faq.html)** ([http://www.cdc.noaa.gov/PublicData/data\\_faq.html](http://www.cdc.noaa.gov/PublicData/data_faq.html))

A list of links for locating climate and weather data/information.

**[EarthRef](http://www.earthref.org/)** (<http://www.earthref.org/>)

A site devoted to bringing together geophysical and geochemical data, modes, tools, and reference materials. While databases are searchable by a number of parameters, the coverage is presently of limited depth. The site is well designed and poised for further growth.

**[EarthTrends](http://earthtrends.wri.org/)** (<http://earthtrends.wri.org/>)

Free access to global or country-specific environmental data, including climate/atmospheric information. Registration is required for access. Developed by the World Resources Institute.

**[Geosource](http://www.library.uu.nl/geosource/index.html)** (<http://www.library.uu.nl/geosource/index.html>)

Web portal to the geosciences; simple as that.

**[GIS Internet Resources](http://www.tec.army.mil/gis/index.html)** (<http://www.tec.army.mil/gis/index.html>)

A one stop shop for Geographic Information Systems links including dictionaries, atlases, and topographic map sites.

**[Hydrogeologist's Homepage](http://www.thehydrogeologist.com/index.htm)** (<http://www.thehydrogeologist.com/index.htm>)

Contains links to geospatial data resources, weather & climate data, and software among the eight front page categories. Intended for those interested in groundwater information.

**[Links for Mineralogists](http://www.uni-wuerzburg.de/mineralogie/links.html)** (<http://www.uni-wuerzburg.de/mineralogie/links.html>)

An Internet pathfinder geared to mineralogists, petrologists, crystallographers, and geologists. Links are annotated to help with selection of sites. Could become an essential tool for geoscience professionals and students alike.

**[National Climatic Data Center](http://www.ncdc.noaa.gov/oa/ncdc.html)** (<http://www.ncdc.noaa.gov/oa/ncdc.html>)

The world's largest archive of climate data. The vast scope and level of detail require users to be familiar with data types and formats. Some data is free while for other data, a fee is charged. Of particular interest to many is the Extremes/Events link for extreme weather and climate events.

**[Structural Geology on the Web](http://www.science.smith.edu/departments/Geology/Structure_Resources/)**

([http://www.science.smith.edu/departments/Geology/Structure\\_Resources/](http://www.science.smith.edu/departments/Geology/Structure_Resources/))

Visit this "deformed road cut along the information superhighway" for links to data sets, bibliographies, images, plate tectonics, etc., of this fundamental earth science component.

**[The PaleoNet Pages](http://www.nhm.ac.uk/hosted_sites/paleonet/)** ([http://www.nhm.ac.uk/hosted\\_sites/paleonet/](http://www.nhm.ac.uk/hosted_sites/paleonet/))

Links, archives, listserv, FTP, information, etc. for those specifically interested in paleontology.

**[U.S. Geological Survey](http://geology.usgs.gov/index.shtml)** (<http://geology.usgs.gov/index.shtml>)

Select one of the resources from the frame such as Minerals or Geomagnetism for data and further information or connect to the GEODE database. From any one of 67 maps, retrieve, display, and manipulate multiple types of information, such as satellite images, geologic maps, graphics, live camera feed, three-dimensional images, and spreadsheet data from this GIS server.

### **Mathematics:**

**[Mathematical Atlas: A Gateway to Modern Mathematics](http://www.math-atlas.org/welcome.html)** (<http://www.math-atlas.org/welcome.html>)

This site is organized according to the Mathematics Subject Classification system and covers all areas of mathematics. A typical area (for example, differential equations) includes a general introduction, history, applications, related subfields, web links, bibliography, and more.

**[Mathematical Functions](http://functions.wolfram.com/)** (<http://functions.wolfram.com/>)

More than 37,000 functions/formulas are available through this site. Easy to navigate, there are 14 function categories to browse or one can search the alphabetical index. Polynomials, Integers, Number Theory, and Constants are just a few of the included function categories.

**[Mathematical Sciences Digital Library](http://www.mathdl.org/)** (<http://www.mathdl.org/>)

Online resources in college mathematics resources.

**[Mathematics Websites](http://www.math.psu.edu/MathLists/Contents.html)** (<http://www.math.psu.edu/MathLists/Contents.html>)

From Penn State comes this list of links to various mathematics web sites. Search for department servers, Institutes, Societies, and subject area pages, among other categories.

**[Mathworld](http://mathworld.wolfram.com/)** (<http://mathworld.wolfram.com/>)

An online mathematics encyclopedia. Entries include a bibliography or references where applicable and hyperlinks to other terms/concepts in the encyclopedia.

**[PRIME Mathematics Encyclopedia](http://www.mathacademy.com/pr/prime)** (<http://www.mathacademy.com/pr/prime>)

Approximately 1,000 entries, some with hyperlinks to extended articles, on all subject areas of mathematics. Searching can be limited by difficulty level and can be focused within a particular area of interest (geometry, for example). This is a growing site.

### **Medicine/Health:**

**[Addiction Search](http://www.addictionsearch.com/addictionsearch/)** (<http://www.addictionsearch.com/addictionsearch/>)

Links to respectable resources on the various aspects of addiction. Find statistics, social issues, and treatment/prevention among the browsable topics.

**[Centers for Disease Control and Prevention](http://www.cdc.gov/)** (<http://www.cdc.gov/>)

Fact sheets, data and statistics, and even information on hoaxes and rumors are available from this site.

**[Drug Information by RxList](http://www.rxlist.com/)** (<http://www.rxlist.com/>)

Somewhat slow loading and a cluttered home page common to dot.com sites, nonetheless, this site provides a search mechanism for drug information such as indications, dosage, and drug interactions. Provides a cross index to generic and brand names. This site is recommended for the drug information only.

**[Free Medical Journals](http://freemedicaljournals.com/)** (<http://freemedicaljournals.com/>)

Access free, online, medical journals such as Biochemical Journal, British Medical Journal, Journal of Vision, and many more.

**[Global Health.gov](http://www.globalhealth.gov/)** (<http://www.globalhealth.gov/>)

Users will find the Data Resources links especially useful. Country information and fact sheets are also available. From the U.S. Dept of Health and Human Services.

**[Hardin MD](http://www.lib.uiowa.edu/hardin/md/)** (<http://www.lib.uiowa.edu/hardin/md/>)

From the University of Iowa comes this long standing and well respected biomedical site that list the sites (i.e. a meta-site index).

**[Health.gov](http://www.health.gov/)** (<http://www.health.gov/>)

Links to a number of government agencies and departments dealing with health initiatives

**[HIV InSite](http://hivinsite.ucsf.edu/InSite)** (<http://hivinsite.ucsf.edu/InSite>)

HIV information written and edited by researchers from a leading health science institution. External links are reviewed for accuracy, credibility, and reliability before posting. A balanced representation of controversial viewpoints is provided. Intended for all audiences.

**[LOCATORplus](http://locatorplus.gov/)** (<http://locatorplus.gov/>)

Database of books, journals, and audiovisuals from the National Library of Medicine.

**[Medicine.net](http://www.medicinenet.com/script/main/hp.asp)** (<http://www.medicinenet.com/script/main/hp.asp>)

A terrific site providing physician-written informative links to diseases & conditions, procedures & tests, and a medical dictionary

**[MedlinePlus](http://medlineplus.gov/)** (<http://medlineplus.gov/>)

The National Library of Medicine's Consumer Health web site.

**[National Center for Health Statistics](http://www.cdc.gov/nchs/)** (<http://www.cdc.gov/nchs/>)

All types of reliable health and health-related stats for the U.S., including births, deaths, and racial & ethnic data.

[NetWellness](http://www.netwellness.org/) (http://www.netwellness.org/)

Quality consumer health information.

[Nutrition.gov](http://www.nutrition.gov/home/index.php3) (http://www.nutrition.gov/home/index.php3)

A pathfinder to hundreds of informative links (mostly federal sites) dealing with all aspects of nutrition. A companion web site is the USDA nutrition page at:

<http://www.nal.usda.gov/fnic/index.html>

[State Health Facts Online](http://www.statehealthfacts.kff.org/) (http://www.statehealthfacts.kff.org/)

Find state-level demographics, health, policy, and more for all 50 states or compare states. Also full-text access to Kaiser Family Foundation reports.

[World Health Organization](http://www.who.int/en) (http://www.who.int/en)

A wealth of health-related information for all 192 member states of the United Nations. Life tables, key health expenditure indicators, and disease outbreaks are just a few examples of the types of data provided for each country. *Health topics* and *Research tools* are other valuable links provided from the home page.

### **Physical Education:**

[Amateur Athletic Foundation of Los Angeles](http://www.aafla.org/) (http://www.aafla.org/)

While this site's professed strength is Olympic information, it is an outstanding web site for information on and about sports, and related issues. The Virtual Archives link includes electronic access to back issues of the Journal of Sport History, the North American Society for Sport History Proceedings, and Sporting Traditions as well as to other publications. Their Links to Other Information Centers from Sports Library is a great collection of research links.

[Baseball Reference.com](http://www.baseball-reference.com) (http://www.baseball-reference.com)

A veritable compendium of professional baseball statistics. The only obvious drawback is the lack of links to the Negro Leagues.

[Basketball Reference.com](http://www.basketballreference.com/) (http://www.basketballreference.com/)

Like its baseball and football counterparts, one can find just about any statistic, current or historical, imaginable.

[Pro Football Reference.com](http://www.pro-football-reference.com/) (http://www.pro-football-reference.com/)

Did you know that the Cincinnati Celts, a defunct football team from 1921 went one and three for the season. Find pro football statistics for teams and individuals on this site.

[Scholarly Sports Sites](http://www.ucalgary.ca/library/ssportsite/) (http://www.ucalgary.ca/library/ssportsite/)

A subject directory to assist the serious sports researcher.

[SIRC](http://www.sirc.ca/online_resources/sportquest.cfm) (http://www.sirc.ca/online\_resources/sportquest.cfm)

Search a vast collection of online resources by topic or by sport.

### **Physics/Astronomy:**

**[Hyperphysics](http://hyperphysics.phy-astr.gsu.edu/hbase/hph.html)** (<http://hyperphysics.phy-astr.gsu.edu/hbase/hph.html>)

Developed and maintained by a professor at Georgia State University, this site offers information and exercises of interest to an undergraduate population - this is a hypertext equivalent to an introductory physics text.

**[Martindale's The Virtual Physics Center](http://www.martindalecenter.com/GradPhysics.html)**

(<http://www.martindalecenter.com/GradPhysics.html>)

A Physics meta site that includes links to calculators, dictionaries, periodic tables, specialized databases, and more.

**[Physics Central](http://www.physicscentral.com/resources/index.html)** (<http://www.physicscentral.com/resources/index.html>)

The American Physical Society site, not much to offer except the annotated web links to sites rated by level (beginner, general, or advanced).

**[Physics Internet Resources](http://www.aps.org/resources/)** (<http://www.aps.org/resources/>)

Maintained by the American Physics Society, this site is a clearinghouse to other Internet sites that provide content.

**[PhysicsWeb](http://physicsweb.org/resources/home)** (<http://physicsweb.org/resources/home>)

The Resources page from the Institute of Physics website offers links to interactive experiments, exercises, data and constants, physical laws, and more.

**[PhysLink](http://www.physlink.com/)** (<http://www.physlink.com/>)

Easily navigable site with particularly useful tabs to Education and Reference.

**[Astronomical World Wide Web Resources](http://www.stsci.edu/astroweb/net-www.html)** (<http://www.stsci.edu/astroweb/net-www.html>)

From the Space Telescope Science Institute comes this long alphabetical listing of links (by site title) related to astronomy.

**[SEDS: Students for the Exploration and Development of Space](http://www.seds.org/)**

(<http://www.seds.org/>)

An organization web site, links are provided to constellation, lunar, solar system, and other resources.

**[SIMBAD Astronomical Database](http://simbad.harvard.edu/cgi-bin/WSimbad.pl)** (<http://simbad.harvard.edu/cgi-bin/WSimbad.pl>)

This database provides basic data, cross-identifications, and bibliography for astronomical objects outside the solar system, and can be queried by object name, coordinates, other criteria (filters), and lists of objects. Familiarity with astronomical nomenclature is helpful.

**[Sloan Digital Sky Survey](http://skyserver.sdss.org/dr1/en/)** (<http://skyserver.sdss.org/dr1/en/>)

Access to the Skyserver database allowing access to over 80 million objects (stars, quasars, galaxies) in addition to lessons and challenges appropriate from grade school up to college-level work.

**[Views of the Solar System](http://www.solarviews.com/eng/homepage.htm)** (<http://www.solarviews.com/eng/homepage.htm>)

Data and images of planets, meteors, and comets. Includes space exploration history and other value-added internal links.