



# Library Services Course Guide ~ Physical Science

## 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**
- **Encyclopædia Britannica Online**
- **Oxford Reference Online**
- **Salem Science**
- **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.

- *Cambridge Illustrated Dictionary of Astronomy*, 2007, by Jacqueline Mitton.
- *Chemistry Demystified*, 2003, by Linda D. Williams.
- *Descriptive Physical Oceanography*, 2001, by M. P. M. Reddy.
- *Geology: A Self-teaching Guide*, 2001, by Barbara Winifred Murck.
- *Handbook of Atmospheric Science*, 2003, by C. N. Hewitt.
- *McGraw-Hill Dictionary of Earth Science*, 2nd Edition, 2003.
- *Meteorology Demystified*, 2006, by Stan Gibilisco.
- *Modern Astronomy: Expanding the Universe*, 2006, by Lisa Yount.
- *Physics*, 2004.
- *Remarkable Physicists: From Galileo to Yukawa*, 2004, by I. M. James.

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 Physical Science Resources in the Library:

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

- **GC1 to GC1581** - Oceanography.

- **GC150 to GC182** - Physical oceanography; Density, Temperature, Optical oceanography.
- **GC190 to GC190.5** - Ocean-atmosphere interaction.
- **GC200 to GC376** - Dynamics of the ocean; Waves, Ocean circulation, Currents, Water masses, & Tides
- **Q1 to Q390** - Science.
  - **Q1 to Q295** - General.
- **QB1 to QB991** - Astronomy.
  - **QB495 to QB903** - Descriptive astronomy.
    - **QB500.5 to QB785** - Solar system.
    - **QB799 to QB903** - Stars.
- **QC1 to QC999** - Physics.
  - **QC221 to QC246** - Acoustics. Sound.
  - **QC251 to QC338.5** - Heat. Thermodynamics.
  - **QC350 to QC467** - Optics. Light.
  - **QC501 to QC766** - Electricity and magnetism.
  - **QC851 to QC999** - Meteorology. Climatology. Including the earth's atmosphere.
- **QD1 to QD999** - Chemistry.
  - **QD1 to QD65** - General chemistry.
- **QE1 to QE996.5** - Geology.
  - **QE1 to QE350.62** - General, including geographical divisions.
  - **QE351 to QE399.2** - Mineralogy.
  - **QE500 to QE639.5** - Dynamic and structural geology.
    - **QE521 to QE545** - Volcanoes and earthquakes.
    - **QE601 to QE613.5** - Structural geology.
  - **QE640 to QE699** - Stratigraphy.

### **Selected Books in the Library:**

- ***Cambridge Guide to the Weather***  
Call number: **QC 981 .R49 2000**
- ***The Earth Machine: The Science of a Dynamic Planet***  
Call number: **QB631 .M32 2004**
- ***Earth Science***  
Call number: **QE28 .E12 2001 REF**, in 5 volumes.
- ***Encyclopedia of Earth and Physical Sciences***  
Call number: **QE 5 .E513 1998**, in 11 volumes.
- ***Encyclopedia of World Scientists***  
Call number: **Q 141 .O25 2001 REF**
- ***The Facts on File Chemistry Handbook***  
Call number: **QD 65 .F33 2000 REF**
- ***The Facts on File Earth Science Handbook***  
Call number: **QE 5 .F32 2000**
- ***Geology***  
Call number: **QE31 .R68 2003**
- ***National Geographic Encyclopedia of Space***  
Call number: **TL 787.5 .N38 2005 REF**
- ***The Oxford Guide to the History of Physics and Astronomy***  
Call number: **QC 7 .O94 2005**

## Selected Journals, Magazines & Newspapers:

Print periodicals are located in C-119 (LRC)

- *National Geographic* (back issues)
- *Physics Today* (back issues)
- *Scientific American*
- *Sky and Telescope*
- *Smithsonian*

## 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.

- **ChemEd DL,**

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

The Chemical Education Digital Library, is a rich collection of resources for the study of chemistry. It also includes "Periodic Table Live," an interactive periodic table that provides detailed information and multi-media on the elements.

- **chemsoc timeline,**

[http://www.rsc.org/chemsoc/timeline/pages/timeline\\_ch\\_01.html](http://www.rsc.org/chemsoc/timeline/pages/timeline_ch_01.html)

From the Royal Society of Chemistry in Great Britain, this is an interactive timeline of events in the history of science, starting with the Big Bang and beyond. It also provides links to other relevant resources. It is available in either Flash or html formats.

- **comPADRE,**

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

Physics and Astronomy Education Communities, is a section of the **National Science Digital Library**, <http://nsdl.org/>, which offers a wealth of information and resources on astronomy and physics.

- **MetEd,**

<http://www.meted.ucar.edu/index.htm>

Meteorology Education and Training, is sponsored by NOAA, <http://www.noaa.gov/>, the National Oceanic and Atmospheric Administration, and was developed to provide educational resources on meteorology. This also includes instructional modules with quizzes. Some resources will require registration, but it's free.

- **NASA,**

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

NASA offers extensive collections of information, images, and other resources. **NASA's Earth Observatory**, <http://earthobservatory.nasa.gov/>, offers images, news, articles and more related to the earth, its features and environment. **NASA's Solar System Exploration**, <http://solarsystem.nasa.gov/index.cfm>, also provides extensive information and resources, including video, audio and interactive resources.

- **The Science Channel Videos: Space School: Solar System**

<http://science.discovery.com/videos/space-school-solar-system.html>

Offers several free videos on the Solar System. The Science Channel is from the Discovery Channel network.

- **Neave Planetarium,**

<http://www.neave.com/planetarium/>

This site allows visitors to view the stars from any location at any time of day or night, any date. It also provides data on planets, stars and constellations - just hover over the objects. To see the sky from your location, you may allow the site to save your location by clicking "Set to my location", and then view the sky from home in the Planetarium, rain or shine, day or night.

- **USGS,**

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

The U. S. Geological Survey website provides information and resources related to other sciences in addition to geology.