

## **Engineering (Revised 8-2-2011)**

### **Websites**

- [Engineering Professional Associations](#)—Kresge Engineering Library (University of California Berkeley) home page with variety of engineering specialties' acronyms under Research by Subject. Click on acronym for list of associations and societies for engineering specialties with professional information, links for students and news.
- [Greatest Engineering Achievements of the 20th Century](#)—selected by multiple professional engineering organizations to highlight a century of technical achievement.
- [Martindale's Calculators Online](#)—collection of links to calculators for many aspects of engineering. Recommend quality checking specific sources chosen.
- [National Academy of Engineering](#)—full text reports on engineering topics including engineering education, engineering and the environment, engineering workforce, information technology and security and more.

### **SMARTHINKING—Free Online Tutoring**

Read these instructions first and then use the link to AC Online provided below:

1. Log onto AC online (use web Advisor name and password).
2. Scroll down to the bottom right of the page.
3. Click on link that says "SmarThinking Online Tutoring Service."
4. Follow the instructions for setting up an account. (Blue bubble with words: Click here to create your own account).
5. Now click here to go to [AC Online](#).

### **AC Library Databases**

- [Academic Search Complete](#)—Largest multi-subject academic database. Good for almost any type of research.
- [ArticleFirst](#)—includes bibliographic citations from over 12, 600 magazines and serials, covering science, technology, medicine, social science, business, the humanities, and popular culture from 1990 to the present.

- [CQ Researcher](#)—. . . explores a single "hot" issue in the news in depth each week. Topics range from social and teen issues to environment, health, education and science and technology." Information from vendor. Excellent for pro-con assignments.
- [Directory of Open Access Journals](#)—provides indexing, abstracting, and free full text access for selected international scholarly journals in many subject areas, including biology, chemistry, health science, languages and literature, mathematics, physics, engineering, agriculture and food science, the arts, business, environmental science, history, law, political science, philosophy, religion, and social science.
- [JSTOR](#)—is the complete archives of back issues of core journals in the humanities, social sciences and sciences. These core scholarly journals have been digitized, starting with the very first issues, many of which date from the 1800s. New titles and fields are being added regularly.
- [Proceedings](#)—provides tables of contents of presented papers from conferences worldwide. Each record contains a list of papers presented at each conference.
- Student Resources in Context— [Off-campus](#) or [On-campus](#) -- Multi-subject database that works well for almost any topic. Especially strong in biography, history, and the cultures of various peoples and countries.
- [TOPICsearch](#) is a current events database used to explore social, political and economic issues, scientific discoveries, and other popular topics discussed in today's classrooms. It contains full text for almost 103,000 articles from more than 2,500 diverse sources, including more than 1,550 full text periodicals.

### ***Electronic Books***

Note: There are a number of books on this topic in the [EBSCO eBooks](#) database. These are just a few samples. Please log in using your WebAdvisor ID and password

- [Basic Engineering Mathematics](#). Bird, J.O., Oxford: Elsevier, 2002.
- [Characterization of Materials](#). Kauffman, Elton N. Hoboken, N.J.: John Wiley & Sons, 2003.
- [Civil Engineering Formulas](#). Hicks, Tyler Gregory, New York: McGraw-Hill Professional, 2002.
- [Essential Mathematical Skills: For Engineering, Science, and Applied Mathematics](#). Barry, Steven Ian; Davis, Stephen Alan; Sydney: University of New South Wales, 2002.
- [Handbook of Electrical Engineering Calculations](#). Phadke, Arun G., New York: Marcel Dekker, 1999.
- [Landmarks in Mechanical Engineering](#). West Lafayette, IN.: Purdue University Press, 1997.
- [McGraw Hill's Engineering Companion](#). Ganic, Ejup N.; Hicks, Tyler G.; Predko, Michael, New

York: McGraw-Hill Professional, 2003.

- [Mathematical and Physical Data, Equations, and Rules of Thumb](#). Gibilisco, Stan, New York: McGraw-Hill Professional, 2001.

### ***Print Books***

Librarians can help students identify suitable books for assignments. You can save time by seeking their assistance.

### **Washington Street Campus**

**Walk-in assistance:** Go to the second floor of Lynn Library. Use the telephone located on the small table near the main computer sign-in desk to call the research help number, which is posted. The librarian on duty will respond.

**Assistance by appointment:** Call 371-5403 or 345-5582 to make an appointment for uninterrupted individual help.

**Assistance by telephone:** Call 371-5468 or toll-free 866-371-5468.

### **West Campus**

**Note:** The West Campus Library specializes in nursing, allied health, criminal justice, child development, and mortuary science.

**Walk-in assistance:** Go to the AC area of the Amarillo Public Library Northwest Branch, which is located in the southeast corner of the AC West Campus (closest to Bell Street). (The AC area is located in the back right-hand corner of the building.) The AC librarian on duty will assist you. You will need a valid library card to check out a book. Call 371-5400 for information about how to obtain a library card.

**Assistance by telephone:** Call 356-3627.