

Engineering 1111

Library Exercise – Spring 2011

Name: _____

Section: _____

Begin at the OSU Library homepage: www.library.okstate.edu – search the library’s Catalog. To search the Catalog, look under the label “Find Books” and select “Catalog (Basic/Keyword)”. The default setting is Basic Search and there is tab for Advanced Search. Basic Search is for searching by keyword, author, title, journal title, etc., and Advanced Search is more flexible and allows for more complex keyword searching.

1. Using the library’s Catalog, locate the record for a book with the title: Invention by design: how engineers get from thought to thing.

What is the call number for the book?

On what floor in the Library would you find the book?

Who is the author of the book?

Is it checked out? Circle: Yes/No

2. Advanced searching. From the library’s homepage, select the Catalog, then select the Advanced search tab, and note that the default search is “Keyword Anywhere”. Locate a book about *engineering design* using a keyword search. Type your search terms on the first line.

How many results did you find? _____

Within the Advanced search screen, modify your search as follows. Use *engineering design* as before, then add the word *sustainable* on a separate line to your keyword search. Select a title of a book from the list and **print** the record.

What is the title of the book you selected?

On what floor would you find this book? _____

3. Using the Catalog, look for books by the author: *Henry Petroski*.

How many books are listed? _____

4. Using the Catalog, limit your search by journal title, find the library’s record for the print and online formats of Popular Mechanics (there is one record for each). For the online format, use the linking software to find the journal title page which provides a listing of the issues available. Is the July 2010 issue available in the online format? Circle Yes/No. For the print format, is the July 2010 issue available? Circle Yes/No. If so, **print** the catalog record and circle the July 2010 issue information.

→ **Continued on the reverse** →

After completing all 7 questions, you should have 4 printouts and a summary from the electrical engineering encyclopedia to attach to this sheet, which you are to hand in to your instructor.

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5. Using the *ProQuest* database, locate an article as follows. From the library's homepage, under *Find Articles*, select *Databases*, and on the database list select *ProQuest*. Using the Advanced Search menu, on the first line type *student success* and on the second line type *university*. Now, sort the results on relevance. **Print** the abstract page for any article that interests you. Note that the abstract is not the full text.

What is the article title?

What is the journal title?

What is the date of the issue (year and month)?

Is the article available from *ProQuest* in full text? Circle: Yes/No

Search the library Catalog to determine if the full text print format of the article is available. Is the item available in the print format? Circle: Yes/No.

If the print format of this journal is available, what is the call number? _____

6. Locate a handbook which is only available in print, as follows.

Select the Catalog from the library's homepage. In a Basic Search, limit to Title, and type in the following title: *Encyclopedia of Electrical and Electronics Engineering*. That search will result in the catalog record for the following item. It is a 24-volume encyclopedia that is kept in General Reference, which is on the 1st floor of the Library, west side of the building.

Encyclopedia of Electrical and Electronics Engineering / John G. Webster, editor. Publisher: New York : John Wiley, 1999.

Description: 24 v. : ill. ; 29 cm.

Location: General Reference, 1st Floor (Non-circulating)

Call Number: **621.303 E56**

Library Has: v.1-24

Note that the title on each volume reads *Wiley Encyclopedia of Electrical and Electronics Engineering*. **Do not let the difference in the title in the catalog and the title on the cover throw you off. This is the correct item. The call number 621.303 E56 correctly identifies this item.** This encyclopedia describes various topics in electrical engineering. Pull any one of the volumes and browse until you find an item of interest. Write a 4 sentence summary paragraph describing the topic, no more than half a page in length. You can also use the index volume to locate something you are interested in, related to electrical engineering. **Attach your summary to this assignment.**

7. Search the online engineering handbook database, *Knovel*, as follows.

From the library's homepage, under *Find Articles*, select *Databases*, and on the database list select *Knovel*. Then, search for and locate the molecular weight for Magnesium. Note: Magnesium is the 12th element on the Periodic Table of the Elements. Answer the following question.

What is the molecular weight of Magnesium?

Answer _____.

Print the page(s) from the handbook where you locate this information and write the handbook title (the name of the handbook) at the top of the page if it is not already there.

After completing all 7 questions, you should have 4 printouts and a summary from the electrical engineering encyclopedia to attach to this sheet, which you are to hand in to your instructor.