JEFFERSON COLLEGE

COURSE SYLLABUS

BIT244

MEDICAL RESEARCH ON THE INTERNET

3 Credit Hours

Prepared by:
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Career & Technical Education
Dr. John R. Keck, Dean
Brenda Russell, Associate Dean
**BIT244 Medical Research on the Internet**

I. CATALOG DESCRIPTION

A. Prerequisite: BIT 140 Internet Communications

B. 3 semester hours credit

C. Medical Research on the Internet will provide the student with the knowledge, tools, search skills, and methodology necessary for medical professionals to excel at computer-aided medical research for the medical profession. (F, S)

II. EXPECTED LEARNING OUTCOMES/ASSESSMENT MEASURE

<table>
<thead>
<tr>
<th>Students will demonstrate their knowledge of how the medical professional uses the Internet as a medical library for research</th>
<th>Students will be given a class project where they will research a subject matter for the doctor as it relates to a body system and make a presentation on what they learned and what research materials they used.</th>
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<tr>
<td>Students will apply the medical and ethical issues of using the Internet for research</td>
<td>Students will make a presentation pertaining to medical and ethical issues of using the Internet and a PowerPoint presentation will be turned in.</td>
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<tr>
<td>Students will conduct research on the Internet using search engines</td>
<td>Students will work as a team in conducting research for a medical transcriptionist office for the medical files submitted to them for transcription.</td>
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<tr>
<td>Students will conduct research on the Internet using site addresses and directories</td>
<td>Students will work as a group in researching a body system for the doctor using site addresses and directories and will put their list of site addresses and directories in a manual for the class.</td>
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<tr>
<td>Students will conduct research on the Internet using medical databases</td>
<td>Students will develop a medical database for a simulated medical office and will submit the database to the instructor using Access.</td>
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<tr>
<td>Students will conduct research on the Internet using medical resource sources for the skeletal system, the muscular system, the cardiovascular system, the lymphatic and immune systems, the respiratory system, the digestive system, the urinary system, the nervous system, the eyes and ears, the integumentary system, the endocrine system and the reproductive system.</td>
<td>Students will complete an in-class exam using the Internet for research the questions asked for the body systems listed.</td>
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III. COURSE OUTLINE WITH UNIT OBJECTIVES

A. Bibliographic indexing services of a medical library

B. Bibliographic indexing services of a public library

C. Medical and ethical issues of using the Internet for research
   1. Rights of publicity
   2. Fraud
   3. Spam
   4. Hacking and computer viruses

D. Use site addresses and directories for research on the Internet
   1. Sources of Internet information
   2. When the site address is known
   3. Types of search tools
   4. Topical directory
   5. Keyword index
   6. Search engine
   7. How to find a site address if it is unknown
   8. Internet directories

E. Use search engines to research on the Internet for the medical profession
   1. Inclusive method
   2. Selective method
   3. Keyword search terms and phrases
   4. The search professional must have a good sense of what is being sought
   5. Use a mix of search engines to locate most relevant pages
   6. Review and search within found pages
   7. The meta search engines

F. Use medical resources on the Internet for researching the following body systems
   1. The skeletal system
   2. The muscular system
   3. The cardiovascular system
   4. The lymphatic and immune system
   5. The respiratory system
   6. The digestive system
   7. The urinary system
   8. The nervous system
   9. The eyes and ears
   10. The integumentary system
   11. The endocrine system
   12. The reproductive system
G. Use medical resources on the Internet for researching pharmacology information

H. Use medical resources on the Internet for searching insurance carriers for billing purposes

IV. METHOD OF INSTRUCTION

A. Class discussion

B. Lecture and presentations

C. Projects on the Internet

V. REQUIRED TEXTBOOK(S) WITH PUBLICATION INFORMATION

The instructor for this course will develop the materials that will be used as the textbook for the class.

VI. REQUIRED MATERIALS (STUDENT)

Flash drive, three-ring binder, paper, pen, pencil

VII. SUPPLEMENTAL REFERENCES

Internet websites

VIII. METHOD OF EVALUATION (basis for determining grade)

A. Homework 20%

B. Projects 60%

C. Final exam 20%

IX. ADA AA STATEMENT

Any student requiring special accommodations should inform the instructor and the Coordinator of Disability Support Services (Library phone 636-481-3169).

X. ACADEMIC HONESTY STATEMENT

All students are responsible for complying with campus policies as stated in the Student Handbook (see College website, http://www.jeffco.edu).
XI. ATTENDANCE STATEMENT

Regular and punctual attendance is expected of all students. Any one of these four options may result in the student being removed from the class and an administrative withdrawal being processed: (1) Student fails to begin class; (2) Student ceases participation for at least two consecutive weeks; (3) Student misses 15 percent or more of the coursework; and/or (4) Student misses 15 percent or more of the course as defined by the instructor. Students earn their financial aid by regularly attending and actively participating in their coursework. If a student does not actively participate, he/she may have to return financial aid funds. Consult the College Catalog or a Student Financial Services representative for more details.

XII. OUTSIDE OF CLASS ACADEMICALLY RELATED ACTIVITIES

The U.S. Department of Education mandates that students be made aware of expectations regarding coursework to be completed outside the classroom. Students are expected to spend substantial time outside of class meetings engaging in academically related activities such as reading, studying, and completing assignments. Specifically, time spent on academically related activities outside of class combined with time spent in class meetings is expected to be a minimum of 37.5 hours over the duration of the term for each credit hour.