The purpose of this project is to acquaint you with performing a literature search, finding primary and secondary publications, organizing and writing a review of a specific topic. Once you choose a topic, you will need to perform a thorough literature search. An accompanying document lists the databases and scientific journals available through the library that will allow you to search for and research a biochemical topic.

Your first task is to pick a topic to research. A recent review article is an excellent place to start. After discussing your choice of topic, you will be required to obtain my approval and periodically discuss with any difficulties you may be having refining your choice of topic and researching it. The following sample topics are very general, so you will be required to narrow them once you begin looking in the literature. If you experience difficulty with your literature search, get help: ask a research librarian or feel free to talk to me. If you still are experiencing difficulty finding information, come see me long before the report is due.

- Examples of possible topics (these topics are examples and cannot be chosen):
  - Insulin function in gluconeogenesis
  - Disorders of bilirubin metabolism
  - Lipid peroxidation production of free radicals
  - Homocysteine and Atherosclerosis
  - Biochemistry of Parkinson’s Disease
  - Atkins diet- is it biochemically valid?

Project Requirements: These requirements must be followed precisely to receive full credit.

- The paper is due on the assigned date. For every day the report is late, 10 points will be deducted.
- You must work independently.
- No two students may choose the same topic.
- You must obtain my approval for your topic.
- You cannot:
  - use a topic that you are investigating as a research project in another course.
  - use a topic that was the basis of another research paper in another course.
  - submit a research paper that you previously submitted for a grade in another course.

- The paper requires:
  - a reference section containing a minimum of 15 references that are referenced, by number, in the paper.
  - a search method report detailing how you structured your search (search terms, databases searched, etc.).
  - copies of the first pages of 3 peer reviewed papers and the first page of 1 review article from your references.

- You must submit the body of the paper to Turnitin via D2L. Go to the Course Content Menu for the course and then to Assignments. In Assignments you will find a folder titled Library Project. Upload the Word file of your paper, minus the reference section.

Paper: (65 points) Points will be deducted for failing to meet these requirements.

- The minimum length is strictly set at 4½ TYPED PAGES.
- The following CANNOT count toward the length requirement for the paper:
  - the list of references
  - the search method report.
  - diagrams, tables and figures
  - an overly long introduction, conclusion or summary.

- The paper must adhere to the following formatting:
  - single spaced
  - Times New Roman, 12 point,
  - 1 inch margins on the top, bottom and sides of ALL pages.
  - a cover page with the title, your name, date and class name
  - no space between paragraphs

- The paper should include the following:
  - an introduction (e.g., what is insulin; the history of this molecule) is a maximum of ¼ of a page. Assume that I have a basic understanding of the topic, so limit your introduction.
  - the body of the review that is a detailed description of the biochemical topic or problem you researched. This should be 90% of the paper
List of References: (20 points)
- Include ONLY scientific primary and secondary references, NOT clinical references. Points will be deducted for including clinical references.
- Note that web pages are NOT peer-reviewed literature.
- EVERY reference listed in your reference section must be cited (by number) in the body of the paper using parentheses enclosing the number. DO NOT use superscripts.
- A minimum of 12 peer-reviewed research papers must be included and cited appropriately in the body of the paper.
- A maximum of 3 review articles must be included and appropriately cited.
- All review article references must be bolded so I can differentiate them from the primary references.
- The review articles and the peer-reviewed research articles must be numbered consecutively as they appear in the body of the paper.
- At least 5 of the papers must have been published within the past 5 years.
- At least 5 different research groups must be referenced. This is easily determined by comparing the contributing authors.
- You may use the continuing work of a single scientific laboratory for up to 3 papers.
- The references must be cited using the same consistent format. No particular format is required, however, an example of an ACS accepted scientific format is shown below. Journals names should be abbreviated according to the Chemical Abstracts Service Source Index (CASSI).
- DO NOT include the http address or the DOI numbers of the references, even if you downloaded the PDF.

Peer-reviewed and Review articles:

Search Method Report: (5 points)
You must also detail the search method. This is simply an account of the various methods you used to find the papers. What was your keyword/database search strategy? What databases did you use? On what texts, review articles or reference books did you base your search?

Copies of the First Page of the following: (10 points)
You must hand in copies of the first pages of 3 peer reviewed papers and the first page of 1 review article from your references.
- These should be stapled to your paper.
- You must also highlight or underline information within the pages that you found pertinent to the topic that you used as either search material or in your paper.