Project and Presentation

- Research a topic (any area of chemistry, biochemistry, or material science) chosen with approval by instructor: a drug or biological material - one that you can find the Chime structure (use http://www.google.com and search the chemical/common name followed by Chime), an important industrial chemical, plastics, or polymer, or a radionuclide used in nuclear medicine. Come to my office to discuss the topic and get it approved. The library has an excellent website for Information Literacy at http://www.pgcc.edu/library/tutorial/index.htm discussing developing a thesis statement, searching and evaluating sources, and handling citations.
  
  Address questions such as:
  How is the material made or obtained?
  How does the material function or what is its importance in industry?
  What are the production or usage figures for the last ten years if possible?
  Does the material present any hazards in use or to the environment when disposed?

- Simple for individual or more complex or involved for a group - a group will need to collect more information and do a team presentation. Groups of 2 or 3 only! The length of the paper in terms of text- at least 4 pages for an individual and at least 8 pages for a group; done in Word with links hot! Illustrations are encouraged in your paper; however, they do not count in the length.

- Writing Center on the third floor of Accokeek Hall - You may consider taking a draft to be reviewed in the Writing Center. For more information, see http://www.pgcc.edu/pgweb/pgdocs/education_resources/tutoring.htm

- Design a PowerPoint presentation - Chime structures and illustrations/animations from the Internet, graphical data using Excel, and/or charts using Inspiration (all available in CH-309). Your instructor will help you with this. Your job is to deliver an informative, interesting, and illustrated presentation of your information. You may even get your fellow classmates to participate. It can be a marketing approach to sell your product! Design your presentation from your research. PowerPoint instructions are at http://academic.pgcc.edu/psc then click on student resources and go down the page. The document also explains how to place Chime structures and hyperlinks into your presentation. Practice your presentation before class!!!
• Cite all sources or references – books, articles, or websites (consider how a .com site compares to .edu site). You need a minimum of five sources and they may not all be websites. Primary sources are the best source of information.

• Peer evaluation of presentation – end of semester 10-15 minute PowerPoint presentation to class – use of graphics or other illustrations, clarity

• Grading - Research document as a Word document and presentation in PowerPoint submitted on disk or via e-mail (ssinex@pqcc.edu) as an attachment:
  10 points for approval of topic by instructor
  30 points on content of research document – at least 4 pages for an individual and at least 8 pages for a group; done in Word with links hot!
  10 points on proper citation of reference material – at least 5 sources
  10 points on design of presentation – take advantage of technology (use graphics, Chime structures, graphs of data, etc. - cite sources)
    clarity of slides
    links to websites or Chime structures
    use of graphics
    citations on slides
  20 points for oral presentation by evaluation of two peers (10 points each) – one selected by student, other by instructor
  20 points for oral presentation by evaluation of instructor

• Timeline - A penalty of 20% per day (off original point value) for late items will be deducted. How many days does it take to reach zero?

  Project topic approval before date of Exam I

  Printed copy of research paper due one week before presentations (last lab period)

  Presentations are on given on the last lab period and during finals period if needed (disk with Word document and PowerPoint file due)