BIOL 1408: Spring 2015 Biotechnology Project

Objective:
Investigate a biotechnology topic that touches people’s lives. In your investigation you will learn about the impact of biotechnology on your life and the world around you.

Facts/ Research:
Biotechnology harnesses cellular and biomolecular processes to develop technologies and products that help improve our lives and the health of our planet. Each student will be assigned a biotechnology topic. After reading Chapter 13: Biotechnology in your book, you will research your topic. In your research you will need to describe the biotechnology; how the technology benefits our lives; how scientists developed this application of a biological concept, how studying biology enhances our understanding of this technology; how has this biotechnology impacted our lives; future applications if applicable; and what ethical implications are associated with this biotechnology tool.

Power Point Guidelines:
Your presentation of biotechnology must include a Power Point presentation of at least 6 slides, no more than 12 slides. Your slides shouldn’t be too wordy and there should be pictures. Slides should introduce you to the topic, the processes involved, the use of this technology, and how studying biology can give us a better understanding of this technology.

Presentation:
Your presentation should be at least 5 minutes, no more than 8 minutes. This means you should practice and time yourself. You should be able to present the information without reading a paper (you can have note cards to guide you, but you cannot read your whole presentation). Your presentation must present the topic clearly and emphasize the importance of this technology to humanity and how studying biology gives you a better understanding of it.

Abstract:
An abstract is a short summary of your completed biotechnology research. If done well, it makes the reader want to learn more about your biotechnology topic. The abstract should be no more than 250 words.

References:
You need 3 references minimum – 1 must be a book/magazine/ journal. Websites must be reputable sites (not Wikipedia). You should create a reference list to turn in along with your abstract. It provides the information necessary for a reader to locate and retrieve any source you use in compiling your research presentation. You will use the APA format for your reference list.

Library Instruction:
To assist you in gathering information about your topic and preparing your Power Point and bibliography, you are required to attend a library instruction session at the EFC library. Days will be designated by your instructor. This is mandatory.

Speech Preparation:
You are expected to develop a clear presentation and to engage your audience. The EFC Speech department page has good information to help you prepare for this presentation. Tips for public speaking:
http://www.eastfieldcollege.edu/al/Speech/PublicSpkgTips.asp Public speaking clips:
http://www.eastfieldcollege.edu/al/Speech/VideoClips.asp
Name __________________________ Biotechnology topic __________________________

Due Dates/ Rubric

Mon, Apr 6 - 3 References in APA format
Mon, Apr 13 – Abstract and Power Point slides (6 minimum; printed in Notes Page form)
Mon, Apr 20 and 27th – Biotechnology Presentations

I. Facts, Research (20 points)
   Information: description of the technology: (10 points)
   • Description of the biotechnology
   • How did scientists apply biological knowledge to create this technology?
   • Benefit to humanity including, future applications and ethical implications if possible
   • How does studying biology help you understand how this technology works?
   • How does Chapter 13: Biotechnology address this topic?

   1  2  3  4  5  6  7  8  9  10

   Accurate Information? Relevant information? Enough information? (10 points)

   1  2  3  4  5  6  7  8  9  10

II. Power Point (10 points)
   6 slides minimum? No more than 12 slides maximum. (5 points)

   1  2  3  4  5


   1  2  3

   Sections labeled? Illustrations? Blank space? Misspelled words (2 points)

   1  2

III. Presentation (10 points)
   Presented without reading, made eye contact with audience? Oral presentation heard and understood?
   At least 5 minutes not more than 8 minutes? (5 points) Time:___________

   1  2  3  4  5

   All information presented: description of the technology, benefit to humanity, how learning biology helps us understand this technology, future applications. (5 points)

   1  2  3  4  5

IV. Abstract and Works Cited (10 points)
   Three references? Proper location? Proper APA format? (5 points)

   1  2  3  4  5


   1  2  3  4  5

Library session attended: __________________________

TOTAL POINTS ________

TOTAL GRADE __________________________