

## AP CAPSTONE RESEARCH

NAME: \_\_\_\_\_

**Congratulations** on completing AP Seminar. Next year I have the pleasure and challenge of assisting you in conducting your own original *Research* and completing your final research paper and presentation. Not only will you complete your own research, but you will gain an understanding of college level, graduate level, and professional level research processes, as well as, how research and results are shared with others in relating fields. I look forward to working with you. Your required summer assignment is attached.

Sincerely,  
*Dr. Shellí A. Barton*  
Room 316

**AP Capstone Research** requires you to dive into an academic topic, problem, or issue of individual interest. You will further develop the skills you acquired in the AP Seminar course by conducting a thorough literature review (research paper) of a topic. Then you will understand a problem relating to your topic by conducting your own **Research**; employ ethical research methods and practices; and access, analyze, and synthesize results as they address your Research question. The course culminates in an academic paper of 4,000-5,000 words and a presentation with an oral defense during which you will answer questions about your academic paper before April 30<sup>th</sup> in the upcoming school year.



### Important Deadlines:

- Weekly Readings and Reflections
- August Summer Assignment
- Sept Contact a mentor, experts etc. Forms
- Sept Initial Annotated Bibliography
- October Intro/Literature Review/Research Question (to be reviewed by mentor and peers)
- November Proposal Form and Intro/Lit Review
- December Method & Procedure, Ethical Issues/IRB Section
- Jan-Feb Conduct study, research, gather data, etc.
- March Results and Discussion section (to be reviewed by teachers and peers)
- April Final Papers and oral defense

### First day of school year =

Bring an 80+ single spiral college ruled notebook on your first day of school. Your spiral notebook will be dedicated to AP Capstone Research.

**SUMMER ASSIGNMENT DUE AUGUST** , NAME: \_\_\_\_\_

Read Chapter 1 “Practical Research: Planning and Design” by Leedy & Ormrod.11<sup>th</sup> Edition available digitally here or on the school website as AP Research Part 2:

[https://pce-fet.com/common/library/books/51/2590\\_%5BP%5BPaul%20D.%20Leedy%2C%20Jeanne%20Ellis%20Ormrod%5D%5D%20Practical%20Res\(b-ok.org\).pdf](https://pce-fet.com/common/library/books/51/2590_%5BP%5BPaul%20D.%20Leedy%2C%20Jeanne%20Ellis%20Ormrod%5D%5D%20Practical%20Res(b-ok.org).pdf)

- 1) Up to this point in your schooling experience, what have you done that you have called “research?”
  
  
- 2) Read 19-20 and complete the chart below.

RESEARCH IS NOT....

- 3) Read 20 and define the following terms as you read RESEARCH IS....

Define Research -

Define Formal Research –

- 4) Read pages 20-25 and explain the following steps in the formal research cycle:

Step 1 Research Problem -

Step 2 Goal of Research -

Step 3 Sub Problems -

Step 4 Hypothesis and assumptions -

Step 5 Research Plan -

Step 6 – Collect, Organize and Analyze Data.

Explain and define ....

Quantitative Research

Qualitative Research

Mixed-Method

Step 7 – Explain this process after reading

5) Define Research Methodology –

6) List Research Tools –

7) Define Descriptive Statistics –

Define Inferential Statistics –

8) Read pages 35-37

Define Critical Thinking –

List and describe the forms of critical thinking:

9) Define Deductive Reasoning –

Define Inductive Reasoning –

Think about your writing based on your stimulus packet in seminar. Was your writing deductive reasoning or inductive reasoning? Explain/justify your answer in 2-3 sentences.

10) Watch **one** of the videos in this play list:

<https://www.youtube.com/watch?v=OGM8otd0J-4&list=PLxr1f4Fd8XKOpJRBYsG7QyEsW3hZ-CfLD>

- A. What was the primary research problem
- B. What was the primary research question
- C. What method did the student use?
- D. How did they use previous research (literature review) to support their study?
- E. How did the data they collected help to understand the research problem/question?

11) In AP Capstone Seminar, you have conducted reviews of existing literature on various topics. In AP Capstone Research, you will conduct a literature review in order to support your own original research problem, purpose of your study, your research question, method, and procedures, analysis and results.

List two general subjects or specific topics that interest you that may be a topic you would like to explore for your year-long research project. Please take your time with the topics and select something that really interests you. Research topics for AP Capstone Research vary greatly. You may even begin to talk to teachers and/or professionals about your ideas and get input and advice. It is always best to study anything that interests you. **YOU MAY NOT USE A TOPIC YOU HAVE RESEARCHED IN SEMINAR as your entire topic but may be a sub topic or sub problem to a bigger research question/problem you wish to explore more in depth.**

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12) LOCATE and print two general articles (one for each topic listed above). These must be an overview of a topic of interest to you (**reviews of literature in the field**). These should only be pulled from peer reviewed databases in our library or the public library databases.

Print these and attach them to your summer assignment. **HIGHLIGHT** topics that interest you in each article.

13) Locate and print two peer reviewed research studies from 2000-2021 (one for each topic listed in item 11). This may not be merely a literature review or magazine article. These should only be pulled from peer reviewed databases in our library or the public library databased.

Print these and attach them to your summer assignment. **HIGHLIGHT** the following in your articles:

- sentences that include the purpose of their study
- researcher's question or specific goal of the study
- the method of research used to conduct the study
- important findings/summary

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