Ernesto Salcedo PhD, FALL

Fall Overview Background and Rationale





THE GOAL OF THE CAPSTONE PROJECT

- Your chance to drive your own agenda
- Hone your ability to integrate and apply information:
 - Anatomical Knowledge, research capabilities, professional skills
- To give you the experience of
 - Brainstorming
 - Planning
 - Implementing
 - Presenting in a public forum



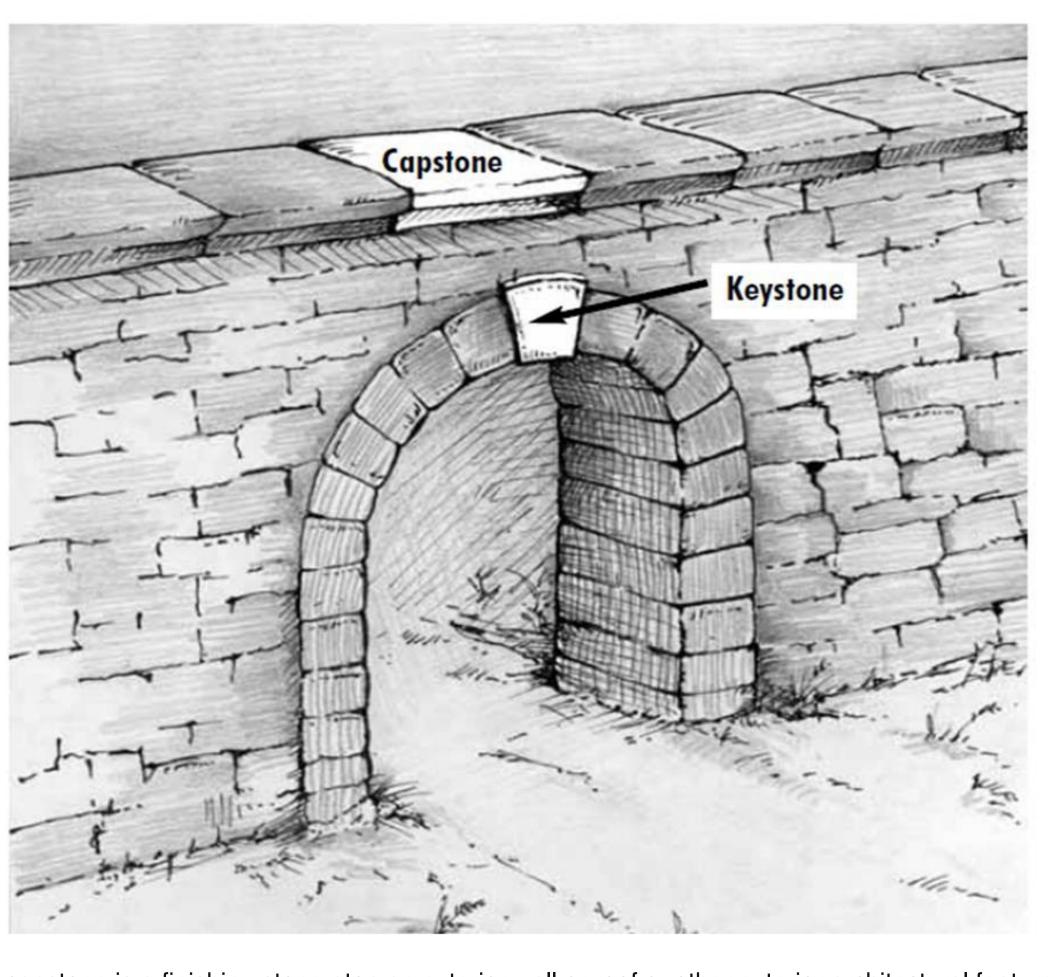
Project Management

IMPLEMENTATION



CAPSTONE REQUIREMENTS

- A Capstone project should
 - result in a tangible product or deliverable
 - demonstrate scholarship and creativity
 - exhibit expertise
 - be anatomically related
 - examine some kind of structure
 - from molecular level to gross
 - be Visually enhanced
 - Images and/or 3D models



A capstone is a finishing stone atop an exterior wall or roof or other exterior architectural feature.

DELIVERABLES

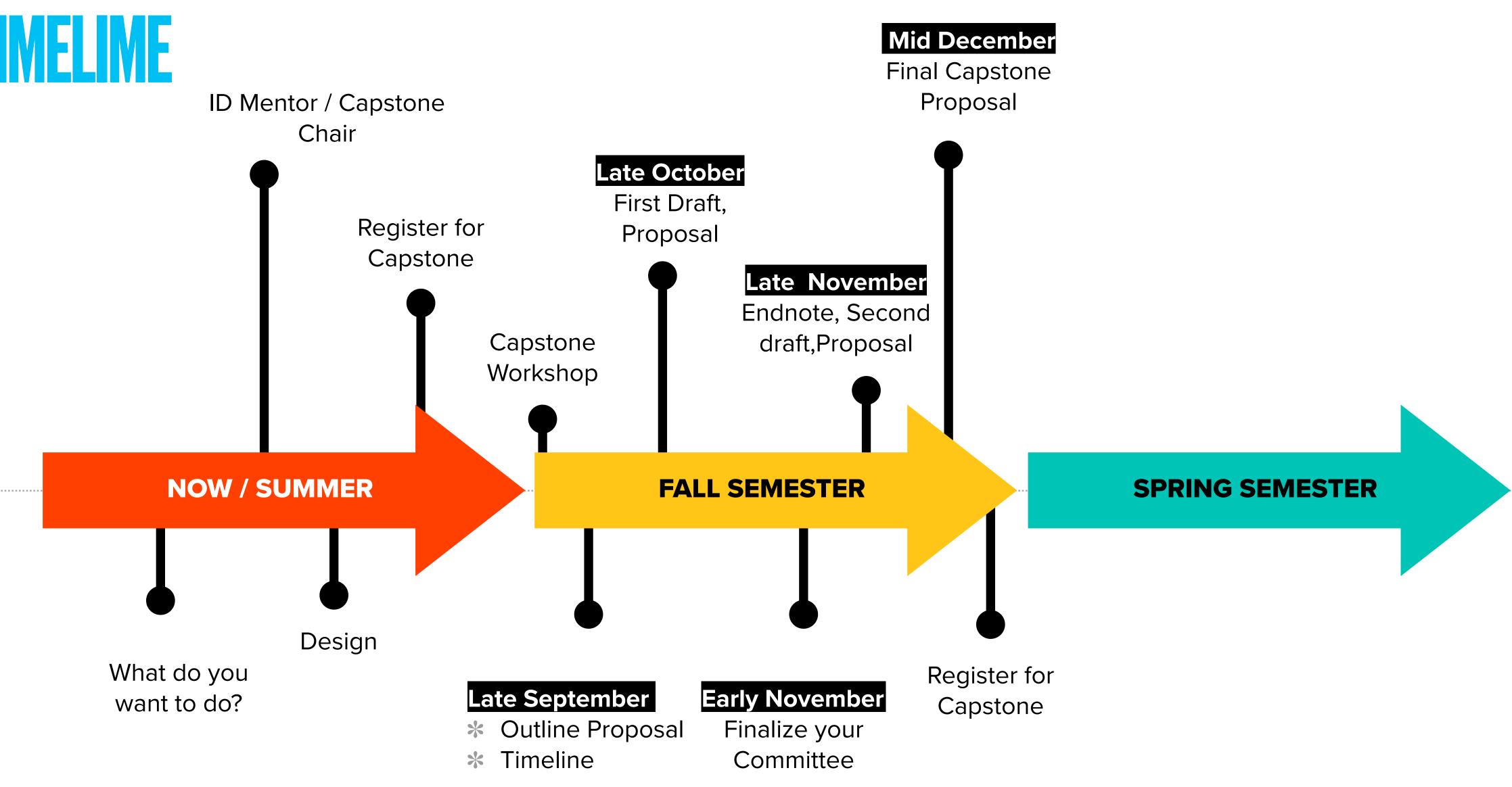
Fall Semester

- Capstone Proposal
- Spring Semester
 - Full Written Report
 - Poster Presentation

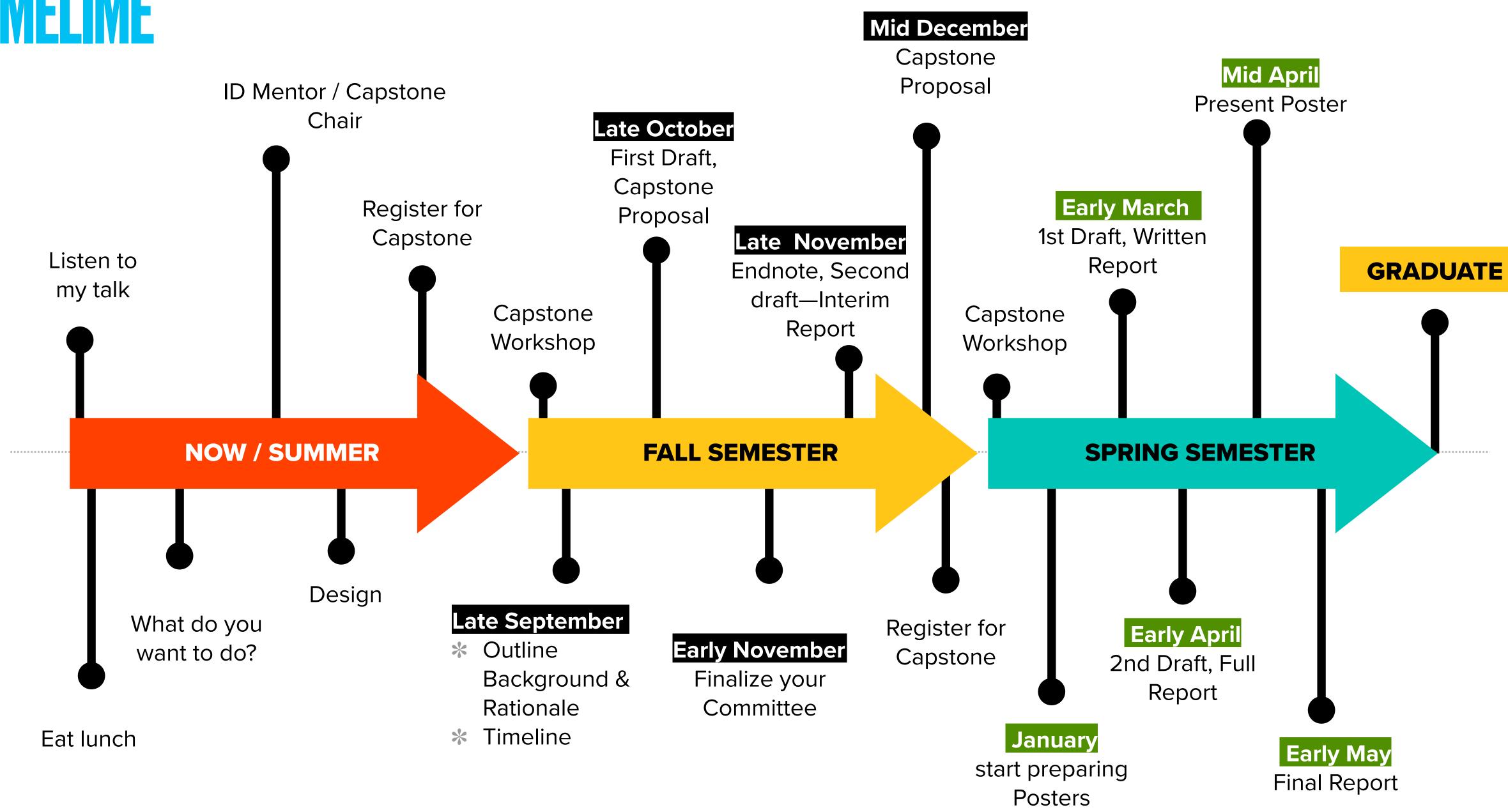
















Just what are you proposing, anyway?



CAPSTONE PROPOSAL

- Modeled after an NIH Proposal
- **Title**
- Significance
- Innovation
- Approach
- Budget
- Timeline
- Citations

- Sets the stage why are proposing what you are proposing **MAIN PARTS**
- Background information. What is known.
- this)
- Hypothesis. A testable statement
- **Specific aims**. Stated objectives or goals
- Outlook. Why is this important?

Rationale. What is not known (and something should be done about)

SGNFICANCE

Background

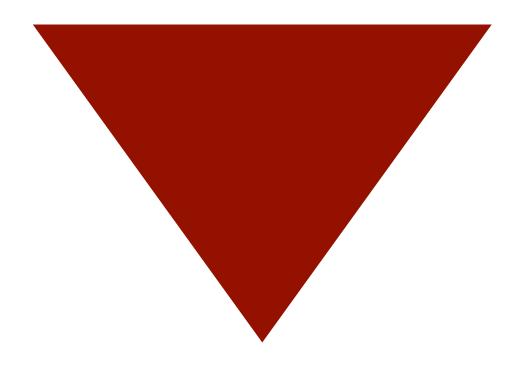
- A summary of the current state of affairs
- Think **AND** Statements: "We know this and that and this."
- Only include the background necessary to understand the project
 - rationale and hypothesis
- Don't forget to mention ANATOMY. We are an anatomy program here.

Rationale:

- Hint at problems with the current state of affairs
- State what's missing and how your project is going to swoop in and save the day.
- Think **BUT** statements. "We know this and that, but..."
- Your rationale sets up your specific aims and hypothesis

OUTLOOK:

Why should we care?



Watch out for DATA DUMPS. We do not want Wikipedia entries here. Just the info we need to understand the

SIGNIFICANCE

Central Hypothesis:

- Hypotheses are testable statements.
- "Our new 3D model will improve learning outcomes"
- Be specific:
 - NOT: social networking sites are harmful (Too general)
 - HOT: Twitter users experiences more privacy issues that users not on such social network
- Your hypothesis should clearly inform the type of experiment that you will be performing
- Specific Aims: Your Specific Aims are your objective statements
 - Now that you have set up the problem (in the rationale), you state how you plan to solve this problem
 - Specific Aims are single sentences that summarize what you plan to do

- How does your project add new information?
- What is new and exciting about your project.
- How is this different from a wikipedia entry
- Reframe your rationale so you discuss what's new

- In the approach section, you will outline the things that you will actually do.
- Basically, you will expand on your Specific Aims
- Every proposed approach should have a rationale on why you are doing it.
 - Because of this, we plan to do this and that
 - Because of that, we will do this other thing





BUDGET

- Do you need money for your project?
- Well, then you are going to need to a budget
 - Create a Line-item budget for things that you may need to purchase
 - Creating a budget doesn't mean that you will actually request the funds - your mentor may be able to provide the supplies
 - To actually receive the funds, you will need to fill out a form and submit it to the finance committee
- If you don't know yet, simply write "No **budget Anticipated**"



- Create deadlines for your Approach
 - By this Date, I will collect the data
 - Part 1
 - Part 2
 - Part 3

...

- By this date, I will analyze the data
- By this date, I will start writing the report





ASSIGNMENT - ENDNOTE

- **EndNote is a citation manager**
- A citation manager:
 - organizes your references
 - simplifies the process of citing a reference in a manuscript
 - formats a bibliography
- **EndNote has a plug-in for Microsoft Word**
- The university now has a site license for EndNote
- For the assignment, install EndNote and learn how to use it.

WRTING CENTER

- Your writing needs to be precise and concise. And professional sounding.
- Don't forget to take advantage of the writing center
- **Especially if your writing is wanting!**
- There is a link on the canvas site
- first draft of your background draft is due (mid-october)



They book up at the end of the semester, so plan on meeting them early, say after the

DENVER | ANSCHUTZ MEDICAL CAMPUS