

## Final Report

The final report should focus on a specific material example of interest to you and discuss the relevant microstructure-property relationships. The example may be a specific material application such as: why Gorilla glass is used successfully on phone screens rather than thermally tempered glass, or why magnesium alloys are sometimes used in the body of high end cameras and what unique challenges exist when machining it, or why are the control lines or kite-boarding kites made from spectra fibre, to name but a few potential topics (note: yes, you can use one of these examples, but be sure to make it good).

### Potential Topics and Outlines

Around the middle of the term, you will be required to submit a document in which you outline three possible topics that you are interested in writing your report on. This deliverable is meant to encourage students to begin planning for this important assignment earlier than they might otherwise. In this deliverable you must clearly outline the structure of a report that you could write for three different topics. This will likely require some research so that you know the issues that are important to discuss for your chosen topics. This document should describe the approach that would be taken for each of your potential topics. This will also provide the teaching staff with an opportunity to advise you on any topics that may be better than others or that would be advisable to stay away from.

### Potential Topics and Outlines Requirements

This deliverable shall conform to the following technical requirements.

- Include all intended section titles
- Include descriptions of intended figures, tables, charts, etc.
- Be submitted as a single PDF file
- Be no more than 3 pages
- Use 12 point font
- Have margins no smaller than 1 inch
- Use 1.5 line spacing

### Final Report Formatting Requirements

Your report shall conform to the following technical requirements.

- Be submitted as a single PDF file
- Be no more than 4 pages (**exclusive of front matter, figures, tables, and references**)
- Use 12 point font
- Have margins no smaller than 1 inch
- Use 1.5 line spacing

Good luck! I look forward to reading your report.

	4. Distinguished	3. Proficient	2. Developing	1. Novice
<p><b>Writing Conventions (15%):</b> Correct spelling, punctuation, grammar, usage</p>	No spelling, grammatical, capitalization or punctuation errors. Sentences well-formed.	Fewer than 5 spelling, grammatical, capitalization, or punctuation errors. One or two flawed sentences.	More than 5 spelling, grammatical, capitalization, or punctuation errors. Less than 5 sentences show flawed structure.	More than 10 spelling, grammatical, capitalization, or punctuation errors. Many sentences show flawed structure.
<p><b>Essay Structure (15%):</b> Structure, organization, word choice.</p>	Ideas presented in logical order and natural flow made writing easy to read. Used scholarly, topic-specific vocabulary.	Most ideas presented in logical order. Used relevant information. Included many details and referenced reputable sources.	Some ideas presented in logical order. There were few details to support the main topic. Information related to the topic, but needed more details.	Ideas were not presented in logical order. Details did not support the main topic. Did not elaborate on details relevant to the main topic. Information did not come from a reliable source.
<p><b>Content (70%):</b> Relates to course content, relevant, detailed</p>	All information accurate and delivered effectively. Thorough subject knowledge with specific and clear discussion of microstructure-property relationships.	Subject knowledge was evident. Some subject knowledge demonstrated with reference to microstructure-property relationships.	Information was relevant, but details did not relate microstructure-property relationships. Subject knowledge was evident.	Information was confusing or irrelevant. Few supporting details and insufficient subject knowledge.