

EGR120-550 - Spring 2013
Dental Composites Case Study

Objective: Students will apply the first stage of the design process to a real-world application,

Procedure:

1. Participate in class discussion that will provide background information about dental composites [note: This is where I'll use the presentation]
2. In your case-study group, assume that your job is to develop a composite material to be used in dental fillings.
3. In your small group, go through the initial steps of the design process
 - a. Step 1: Identify the problem/product innovation. **Address the following things: What is the need for this product? Who would benefit? At the end, come up with a clear, concise statement of the goal of this project.**
 - b. Step 2: Establish the working criteria/ goals. **Include at least 6 design criteria and constraints for the product. Use the information from the reference material if needed [links posted on Angel-see below] and your own personal experience to come up with the criteria and constraints.**
4. Be prepared to report your group's answers when we get back together as a class

[Reference links:

<http://www.dentistry.com/treatments/dental-fillings/amalgam-vs-composite-fillings>

http://www.ehow.com/about_5210060_history-dental-fillings.html

<http://www.yourdentistryguide.com/fillings-material/>]