

# 48215\_Materials&Assembly

## ***Material Studies (100 pts)***

*Due Date: 2007.03.01 & 2007.04.12*

### ***Assignment***

You have been placed into building study teams in your design studio based on one of four materials - wood, steel, concrete and metal. Keeping those same studio-based teams for this semester-long assignment in M&A, you are to compile a notebook with research concerning your chosen material.

There are two interim submission dates leading up to a final class presentation by each team during the last week of class. At each interim submission, each three-person team is required to submit six (6) materials using the template that is in the Course Documents folder on the class Blackboard™ site. By the end of the semester, each team will have a collection of twelve, doubled sided material research pages. You will have ten minutes in class to present your work.

Each student is encouraged to explore a broad range of material types and usages, from traditional to still in the laboratory and from structural to finish applications.

At a minimum, the information you collect must include:

a statement explaining why you chose this material

the aesthetic properties and typical usages of the material including photos and/ or drawings

the typical usages for the material.

the physical properties of your material, such as density, strength, thermal conductivity.

the sustainable properties of the material, including upstream, in-use, downstream, embodied energy, ozone depletion (kg R11 Esq), global warming (kg CO2 Esq), acidification (kg SO2 Esq).

### ***Grading Criteria:***

Statement (12 materials)	12 pts
Physical Properties (12 materials)	24 pts
Sustainable Properties(12 materials)	24 pts
Usage Documentation(12 materials)	24 pts
Class Presentation	16 pts