

- **2 Midterm Exams- 40 %** (Midterms will be held in lecture hours)
- **Pop-quizes -10 %**
- **Final Exam- 50 %**
  
- Every lecture attanence
- Make-up exams definitely will not be easier than the regular exams!
- If you have sensitivity about your final grade, I may have advices to you in the beginning of the course. At the end of the course, I will not be able to help you.
- No smart-phone usage during lecture

# COURSE MATERIAL

- Lecture Notes
- A.O. Surendranathan, «An Introduction to Ceramics and Refractories»
- D.W. Richerson, «Modern Ceramic Engineering—Properties, Processing, and Use in Design»

## MEMORIZING

- Limits learning of ideas and concepts to word for word recall.
- Limits ability to generate insight or creative ideas.
- Limits learning to actual words recalled.
- Inability to deduce or induce.
- Has trouble seeing beyond the basic concept or idea.

## UNDERSTANDING

- Converts ideas and concepts into own words.
- Creates a basis for generating insights and creative syntheses.
- Advances the depth of learning.
- Develops insights that come from deduction or induction.
- Can see meaning, effects, results, consequences beyond the basic idea or concept.

<ul style="list-style-type: none"><li>• Difficult to explain ideas to someone else other than word for word.</li></ul>	<ul style="list-style-type: none"><li>• Able to use own words to explain something clearly to someone else.</li></ul>
<ul style="list-style-type: none"><li>• Difficult to see how ideas apply in real-life situations.</li></ul>	<ul style="list-style-type: none"><li>• Can apply ideas to real life situations.</li></ul>
<ul style="list-style-type: none"><li>• Relevance of ideas outside the classroom is difficult to see.</li></ul>	<ul style="list-style-type: none"><li>• Ability to seek connections between knowledge learned in classroom and the outside world.</li></ul>
<ul style="list-style-type: none"><li>• Does not see differences, similarities, and implications of ideas.</li></ul>	<ul style="list-style-type: none"><li>• Can identify differences, similarities between ideas and implications of these ideas.</li></ul>
<ul style="list-style-type: none"><li>• Interprets ideas literally.</li></ul>	<ul style="list-style-type: none"><li>• Realizes that there can be figurative as well as literal interpretations of ideas.</li></ul>

- Strives for rote learning and has trouble solving problems when numbers or components are changed.

- Believes there is one right answer to every question.

- Strives for understand and can solve problems even when numbers or components are changed.

- Accepts that there may be more than 1 “right” answer to a question depending on circumstances.