**Shallow vs. *Deep* Processing**

**Shallow processing**

* In class: physically present but mind isn’t there
* Studying meaningless, superficial properties
* Re-reading memorizing
* Reading – looking at words, just reading to “get through” the material

***Deep* Processing**

*Leads to better recall*

* In class: focused attention, listening for something new, notes support understanding of material
* Interpreting information – making it meaningful for you
* Relating to prior knowledge
* Creating a mental image
* Preread assignments so that material in class makes sense, look for connections

***Deep* Process Learning**

When learning new material, use these strategies/questions to process the information more deeply:

* *Elaboration:* How do concepts relate to each other? Make meaningful connections between concepts and other information you know.
* *Distinctiveness*: How are the concepts different? How are they similar?
* *Personal Connection*: How can I relate this concept to my own experiences? What personal examples illustrate this concept?
* *Appropriate Application of material*: What do I have to be able to do with the material I am learning? Do I need to apply it? Memorize it? Compare it? Create my own?

**Active/*Deep* Study Strategies**

**Reading**

* Active reading: focus on questions to be answered by the reading, take notes

**Solve Problems**

* Use textbook, on-line resources

**Studying with others**

* Tutoring, effective study groups

**Review material**

* Recite concepts out loud, explain it to someone else, use white-boards to recreate concepts

**Make it Personal**

* Develop personal examples

**Clarify questions about material**

* Use text, on-line resources, KhanAcademy.org, tutors, instructors

**Develop Study Aids**

* Notecards, concept-maps, sample test questions, matrixes to compare and contrast

**Writing assignments and Projects**

* Identify steps, set goals, create an outline