

AME30363 – Design Methodology

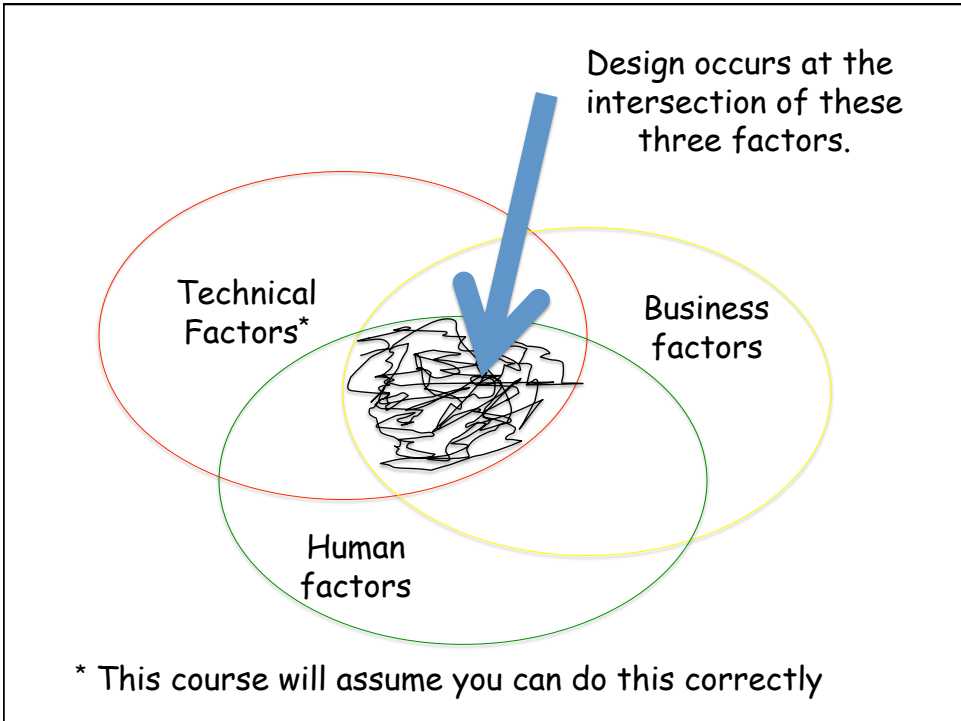
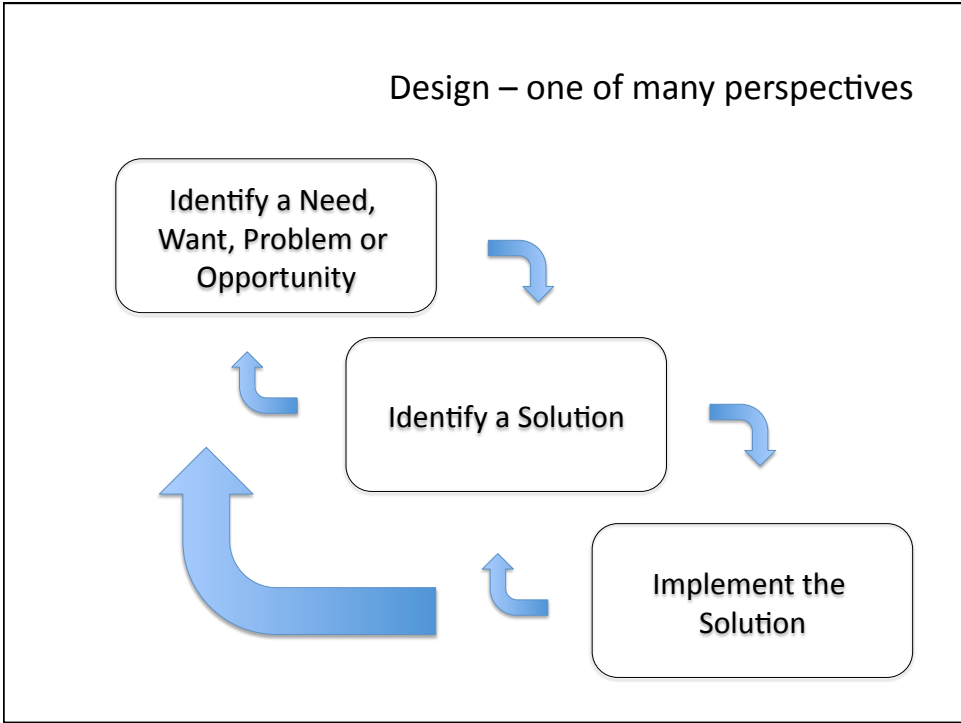
- Course policy – please read it.
- Concourse – please use it.
- Questions – please ask them.

Some concepts to consider

- Define in your own words the term “design.” (the verb)
- Define in your own words the term “invent.”
- Define in your own words the term “innovate.”

Provide a brief response to each of these questions. Spend a few minutes writing your initial thoughts for each.





Synthesis and Analysis

- Synthesis – df: is used in many fields, usually to mean a process which combines together two or more pre-existing elements resulting in the formation of something new.
- Analysis – df: is the process of breaking a complex topic or substance into smaller parts to gain a better understanding of it.
- With which process do you have more experience?

Definitions adapted from Wikipedia:
<http://en.wikipedia.org/wiki/Synthesis>
<http://en.wikipedia.org/wiki/Analysis>



Session 1 (8/24) - Key takeaways

- Design involves a complex interaction between human, business and technical factors.
- The design process involves:
 - Problem formulation
 - Solution conceptualization
 - Solution implementation

