# CS 421 Requirements Homework

**Characteristics of Good Requirements**

1. Requirements should specify one and only one thing
2. Requirements should specify what YOUR system must do, not what other (external) systems do
3. Requirements should specify things the customer cares about (external behavior) not internal development decisions.
4. To make this easier, in this class all functional requirements must begin with "The system shall…"
5. Verifiability. Is the requirement realistically testable?
6. Comprehensibility. Is the requirement properly understood?
7. Traceability. Is the origin of the requirement clearly stated? (What is the source?)
8. Adaptability. Can the requirement be changed without a large impact on other requirements?

**Part 1: Given the characteristics above, note what is wrong with the following requirements for Microsoft Powerpoint (a presentation tool). Note everything that is wrong and realize some may have nothing wrong.**

R1. The system shall create output that can be imported into Microsoft Word using "import from Powerpoint" in Word..
Source: Joe Pesci, Microsoft Word Project Manager

R2. The system shall perform a print preview within a reasonable amount of time and shall be able to print or cancel from the preview screen.
Source: John Stamos, Technical Sales

R3. The product should cost no more than $199.00 when sold to the public.
Source: Jennifer Anniston, Microsoft Powerpoint Program Manager

R1. The font chooser should work like Mark wanted it to.
Source: Unknown, probably Mark

R5. The system shall maintain all local variables in a hash table to increase performance.

**Part 2: Write 5 good functional requirements and 2 good non-functional requirements for a web browser.**