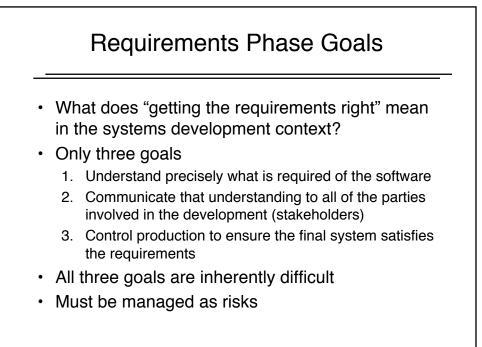


What makes requirements difficult?

- · Comprehension (understanding)
 - People don't (really) know what they want (...until they see it)
 Superficial grasp is insufficient to build correct software
- Communication
 - People work best with regular structures, conceptual coherence, and visualization
 - Software's conceptual structures are complex, arbitrary, and difficult to visualize
- Control (predictability, manageability)
 - Difficult to predict which requirements will be hard to meet
 - Requirements change all the time
 - Together can make planning unreliable, cost and schedule unpredictable
- Inseparable Concerns
 - Many requirements issues cannot be cleanly separated (I.e., decisions about one necessarily impact another)
 - Difficult to apply "divide and conquer"
 - Must make tradeoffs where requirements conflict

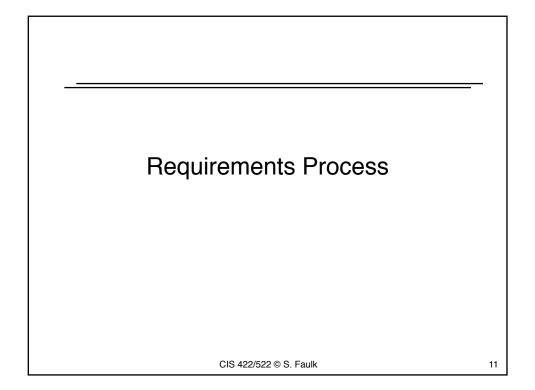
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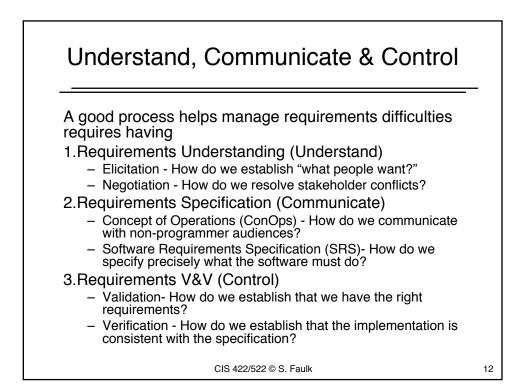
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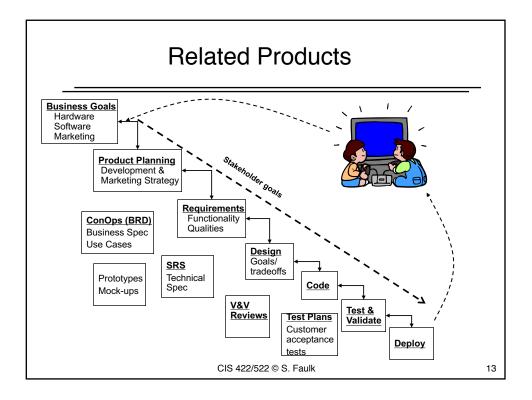


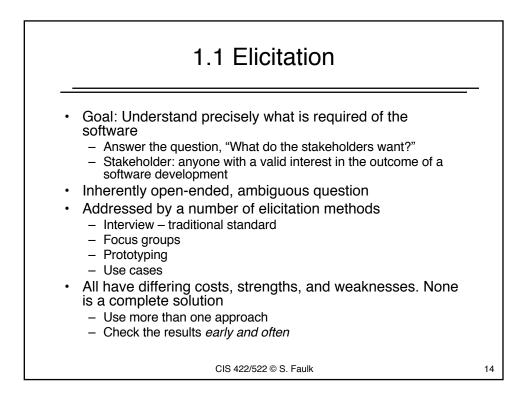
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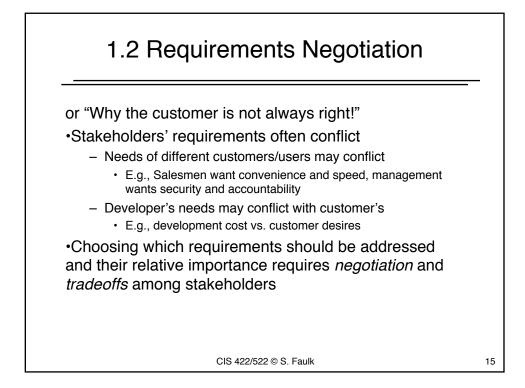
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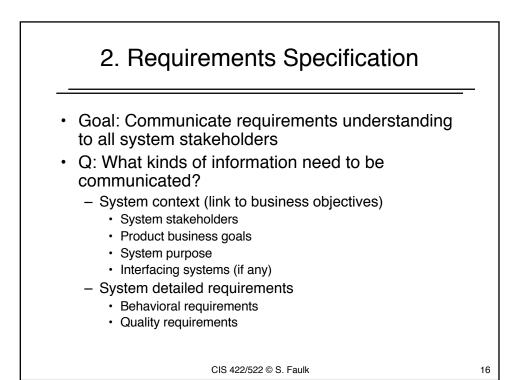


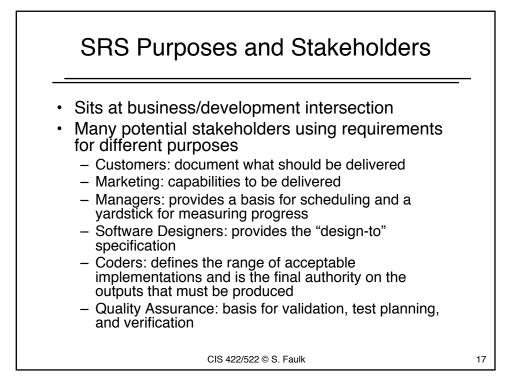


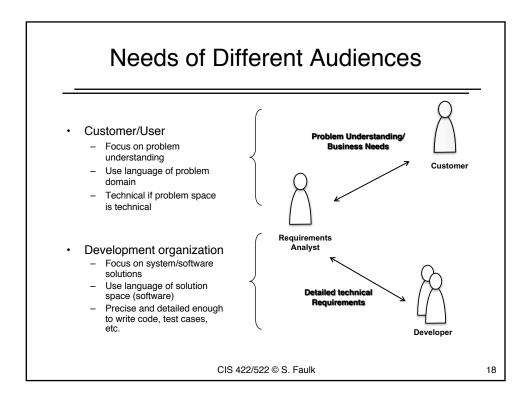




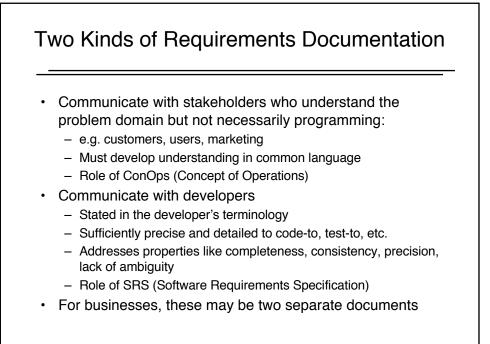






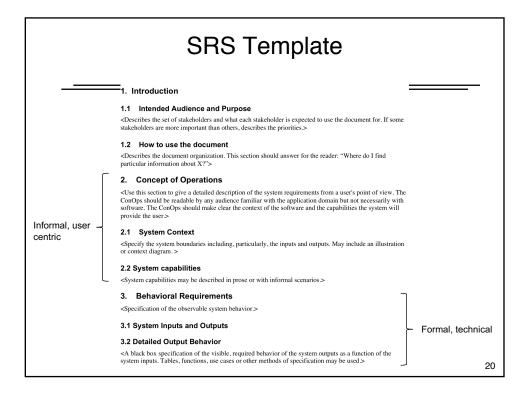


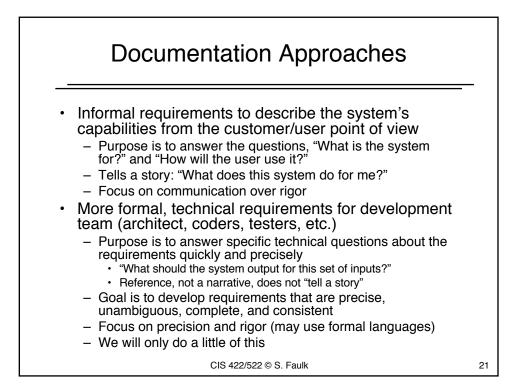
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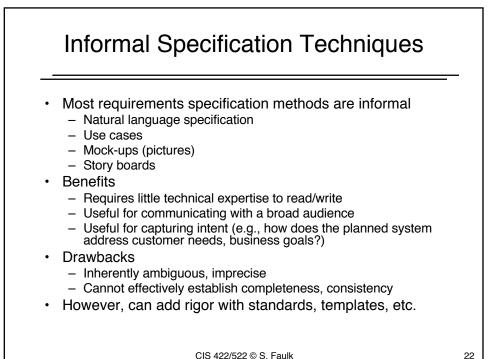


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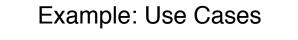
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- Informal specification requirements in terms of system capabilities provided to a user
- Each Use Case describes how the system and a user interact to accomplish a user task
 - Specifies (only) functional behavior
 - Captures the "business logic" of the application
- Inherently ambiguous, incomplete
 - Can add rigor with consistent templates, good process, reviews

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