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CSSE3002 – The Software Process

Lecture 1

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1. Software Engineering

Application of a systematic, disciplined, quantifiable approach to the development, operation, and maintence of software. - This is, the application of engineering to software - IEEE Standard 610.12-1990 Concerned with theories, methods and tools that enable professional software development. "The topic that we call software engineering is both exciting and frustrating. Exciting because it draws on many technical disciplines and provides a harness that binds each discipline to the next. Frustrating, because it demands knowledge in a multitude of topic areas and seems to be infinitely expandable." (Roger Pressman, 1992) Discipline behind the process (you actually know what you're doing and why) Being able to - choose appropriate tools and techniques - work effectively in a team - manage your own work and the process

2. Software Engineering Process

A structured set of activities followed to develop software system. - Tools - Methods - Practices

A lot of companies have fucked up

3. Well Engineered Software

- Usable
- Dependable
- Maintable
- Efficient
- How do costs come into this? – Trade-offs may be involved