***Software Engineering*** – The application of scientific principles to the design and creation of software  
- Uses a systematic approach to collect business requirements and design, build, and test software

**Computer-Aided Software Engineering (CASE):**

- Tools that came to prevalence in the 1980’s to alleviate the “software crisis” and help align discordant software engineering frameworks  
- Can be divided into six categories:

1. Business Analysis & Modeling  
2. Debugging Environments  
3. Verification and Validation tools  
4. Configuration Management  
5. Metrics and Measurement  
6. Project Management

**Software Engineer vs Software Developer:**

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**Software Development Life Cycle (SDLC)**

- A scientific approach to software development  
- Identifies steps needed to develop high quality software and guides the software development process