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**CMPUT 301**



# **MOTIVATION**



# Discussion

- What is software engineering about?



# “Software Engineering”

- Link:

- [http://en.wikipedia.org/wiki/Software engineering](http://en.wikipedia.org/wiki/Software_engineering)

- “It is a ‘systematic approach to the analysis, design, assessment, implementation, test, maintenance and reengineering of software, that is, the application of engineering to software.’ ”



# Weinberg's Second Law

- Quote:
  - “If builders built buildings the way programmers wrote programs, then the first woodpecker that came along would destroy civilization.”



- Quote:

- “Software and cathedrals are much the same  
—first we build them, then we pray.”

Sam Redwine



# Discussion

- Why is developing quality software on-time and on budget so difficult?



# **COURSE INFORMATION**





# Goals

- Learn and apply:
  - effective software development practices
  - focusing on:
    - team project
    - design
    - tools
    - practicality



# Materials

- eClass site:
  - <https://eclass.srv.ualberta.ca/>
  - outline / policies
  - schedule
  - course work
  - lecture and lab notes
  - blended learning
  - labs start next week



# Communication

- eClass discussion forums:
  - announcements
  - questions and answers
  - please be courteous
  - also help each other out
  - also considered as “participation”



# Communication

- Instructor email:
  - [kenw@cs.ualberta.ca](mailto:kenw@cs.ualberta.ca)
  - please be concise
- Instructor office hours:
  - Fridays at 12:00, or
  - please email for an appointment