Software Engineering I
CS361
Professor

Michael Hilton

@MichaelHilton

hiltonm@eecs.oregonstate.edu

michael.hilton
Nicholas Nelson  nelsonni@oregonstate.edu
Shane McKee    mckeesh@oregonstate.edu
A LITTLE ABOUT ME

Worked as Software Engineer for over 10 years. Worked for US Navy, Loan Software Company, and Android App Startup
History of Software Engineering

- First used in 1968 for a NATO conference
- Margaret Hamilton – Director of programming for APOLLO Space Program
What is Software Engineering?
Creating cost-effective solutions...  
... to practical problems ...  
... by applying scientific knowledge ...  
... building things ...  
... in the service of mankind

Definition from Mary Shaw:  
https://www.youtube.com/watch?v=S03bsjs2YnQ
MOVING TO PROFESSIONAL ENGINEERING

Source: Mary Shaw
http://resources.sei.cmu.edu/asset_files/Presentation/2015_017_101_438724.PDF
What Are our Goals for this Class?
Some Things we will study in this Class

- **Requirements**: a description of what software should do and should be
- **Design**: a description of something that could be created
- **Validation**: making sure that you are headed the right direction
- **Notations**: the rules for describing requirements, designs, and systems
- **Writing**: expressing yourself in printed sentences
- **Cost and Schedule**: the amount of money and time expended on creating a system
- **Teamwork**: people striving toward a common goal
Class Activities

- In class Participation 10%
- Writing Assignment 20%
- Final 20%
- Group Project 50%
In class Participation

✗ Answer questions when called upon
✗ Participate in group activities
✗ Be ready to discuss readings
Writing Assignment

- Writing Intensive Course
- University Requirement
- 2000 Word Essay
- Multiple revisions
Final

- Will be held during final slot for our class.
- Comprehensive
Group Project

- Learn by Doing
- 4 Two week Sprints
- MVC app Built on Java with some Javascript/HTML
- Team Project
Communication Channels

Questions about lectures or assignments should be asked on piazza.

Email only for personal questions

Canvas will be used for posting grades.

Assignments and reading will be posted on the class website
Assignment 0

Posted on the class website:
http://web.engr.oregonstate.edu/~hiltonm/teaching/cs361/
Presentation design

This presentation uses the following typographies and colors:

- **Titles:** Amatic SC
- **Body copy:** Merriweather

You can download the fonts on this page:

http://www.google.com/fonts#UsePlace:use/Collection:Merriweather:400,700,400italic,700italic|Amatic+SC:400,700

Click on the “arrow button” that appears on the top right.

- **Light gray** #f5f6f7
- **Dark gray** #95a5a6
- **Navy** #2c3e50
- **Salmon** #f55d4b

You don’t need to keep this slide in your presentation. It’s only here to serve you as a design guide if you need to create new slides or download the fonts to edit the presentation in PowerPoint®.