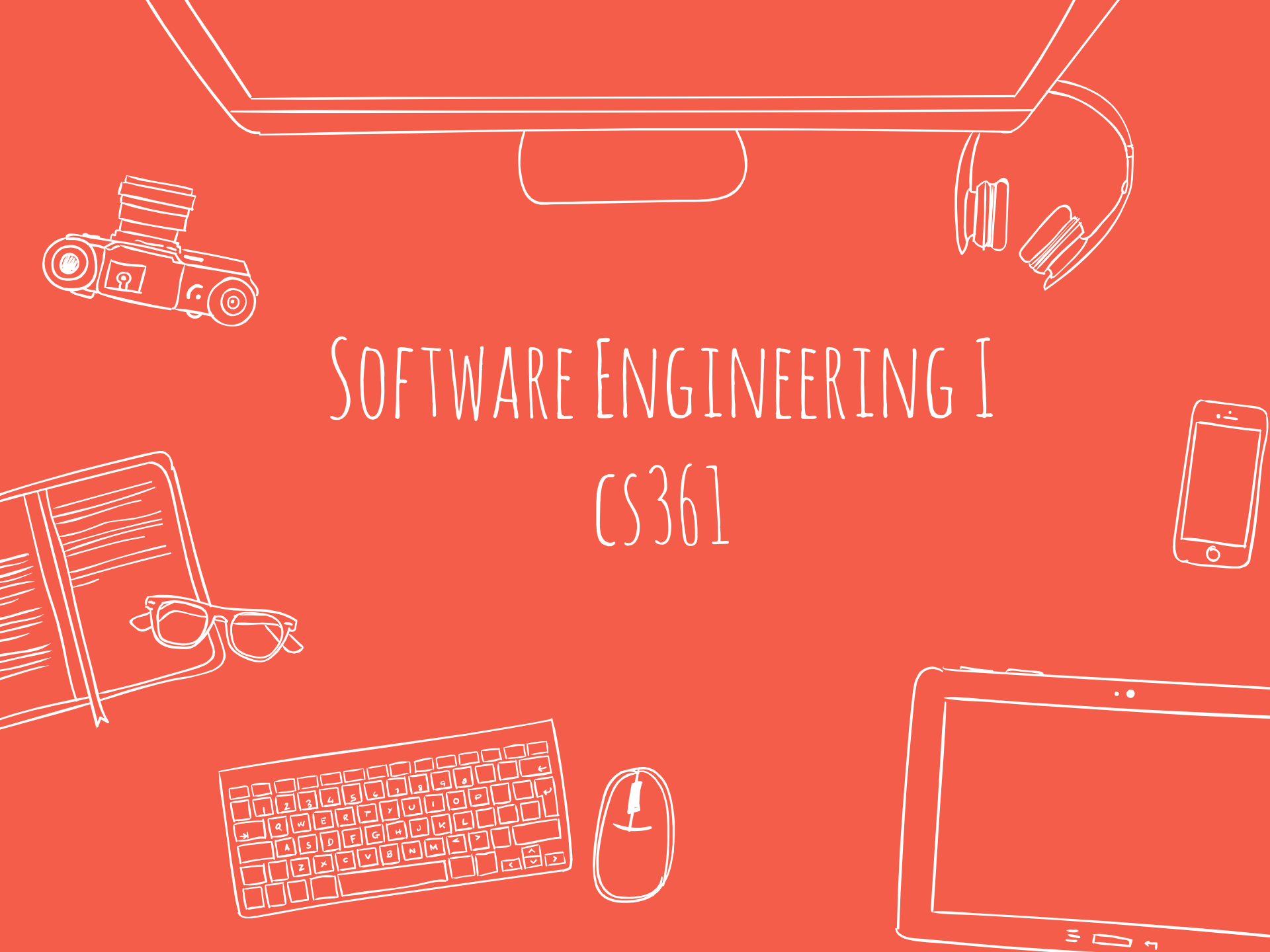# Software Engineering I
CS361

Professor

Michael Hilton

@MichaelHilton

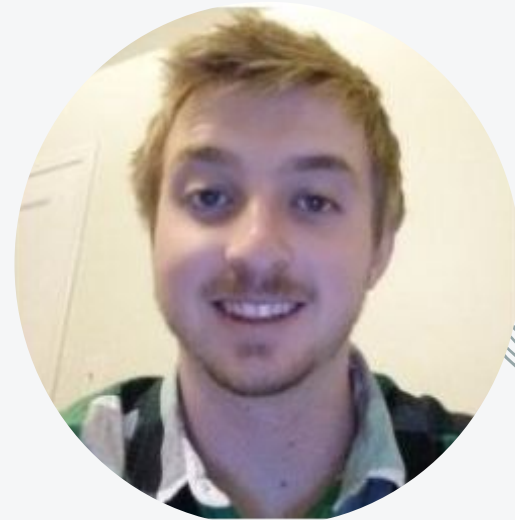hiltonm@eecs.oregonstate.edu

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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
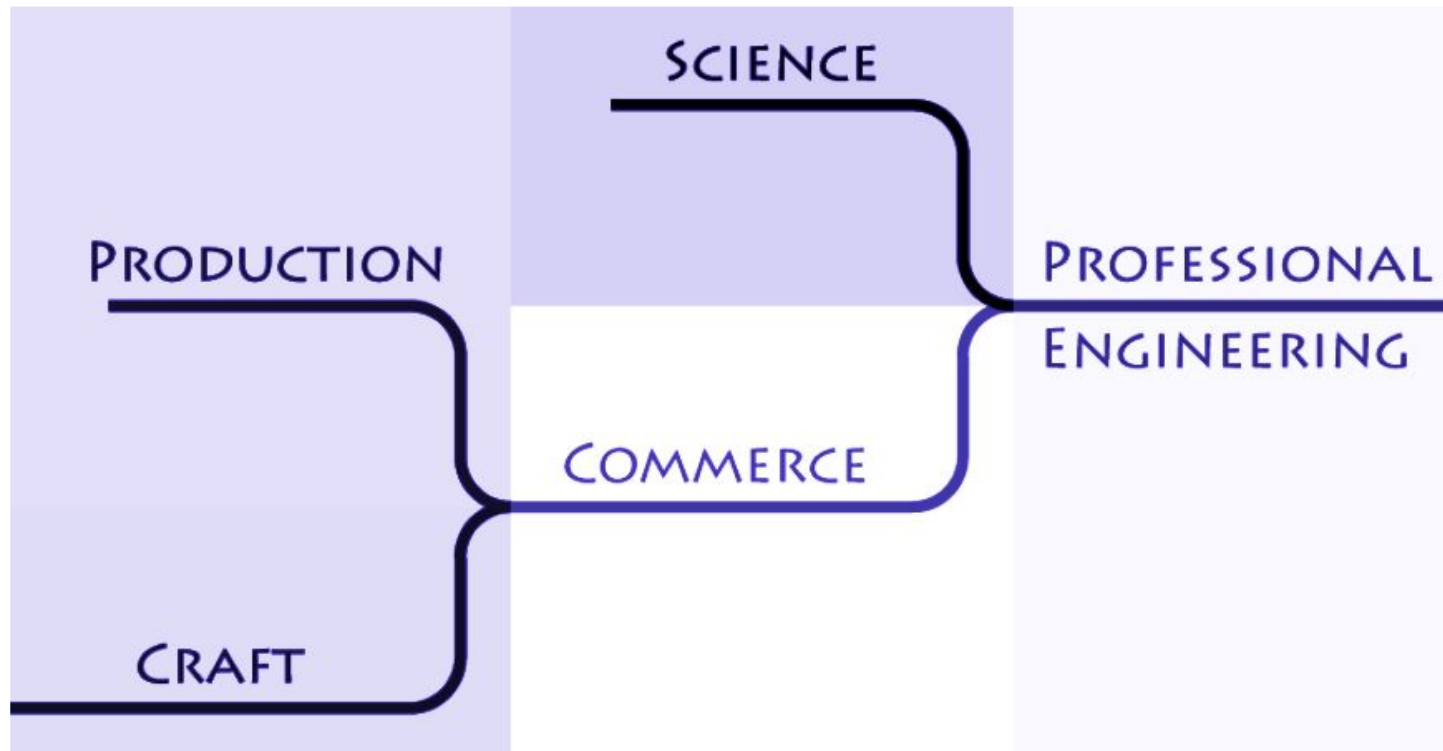
What is Software Engineering?

Definition of Software Engineering From Mary Shaw

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

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

Presentation design

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✖ Titles: **Amatic SC**

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Click on the "arrow button" that appears on the top right

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✖ Dark gray #95a5a6

✖ Navy **#2c3e50**

✖ Salmon **#f55d4b**

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