

# Course introductions & syllabus overview

ENSE 805 with Dr. Tim Maciag



University  
of Regina



**FACULTY OF ENGINEERING  
& APPLIED SCIENCE**  
Software Systems Engineering



# Today's topics

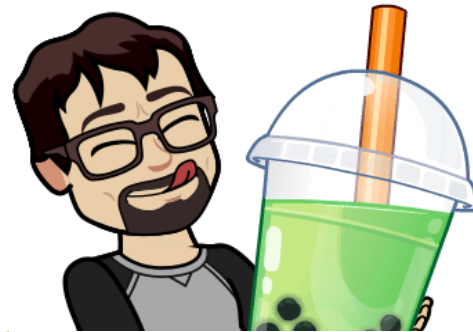
- Who am I?
- Who are you?
- What will we be doing?
- When will we be doing it?
- Where will we be doing it?
- Why are we doing it?
- How about grading?
- Pragmatic philosophy

#W5





# Who dis?



**FACULTY OF ENGINEERING  
& APPLIED SCIENCE**  
Software Systems Engineering



**I HAVE NO  
IDEA WHAT  
I'M DOING**





# Teaching philosophy

- **Constructivism** is a learning theory which maintains that deeper and more permanent learning occurs when the learner is allowed to construct meaning from experience; by doing, analyzing, creating, making, building, researching, synthesizing information, etc.
- Constructivists believe that **educators should act as facilitators** to guide learners through the learning process and allow them to create meaning from their experience.
- Traditional educational model vs. Constructivism vs. Apprenticeship
- About teaching and education with Ken Robinson
  - [https://youtu.be/aT\\_121H3kLY](https://youtu.be/aT_121H3kLY)

# Who are we (you)?



- In URCourses – fill out your “who are we?” wiki!
  - Provide a mugshot
  - About you (what year student, what *fancies your tickle* – haha - keep it clean ;) etc.
  - Why SSE?
  - Hobbies/talents
  - What you hope to get out of the class

# Who are we (you)?



In URCourses, fill out your wiki!

shot

near student, haha

**Due May 7**  
**in URCourses**  
**"who are we?"**

- What do we need to get out of the class?

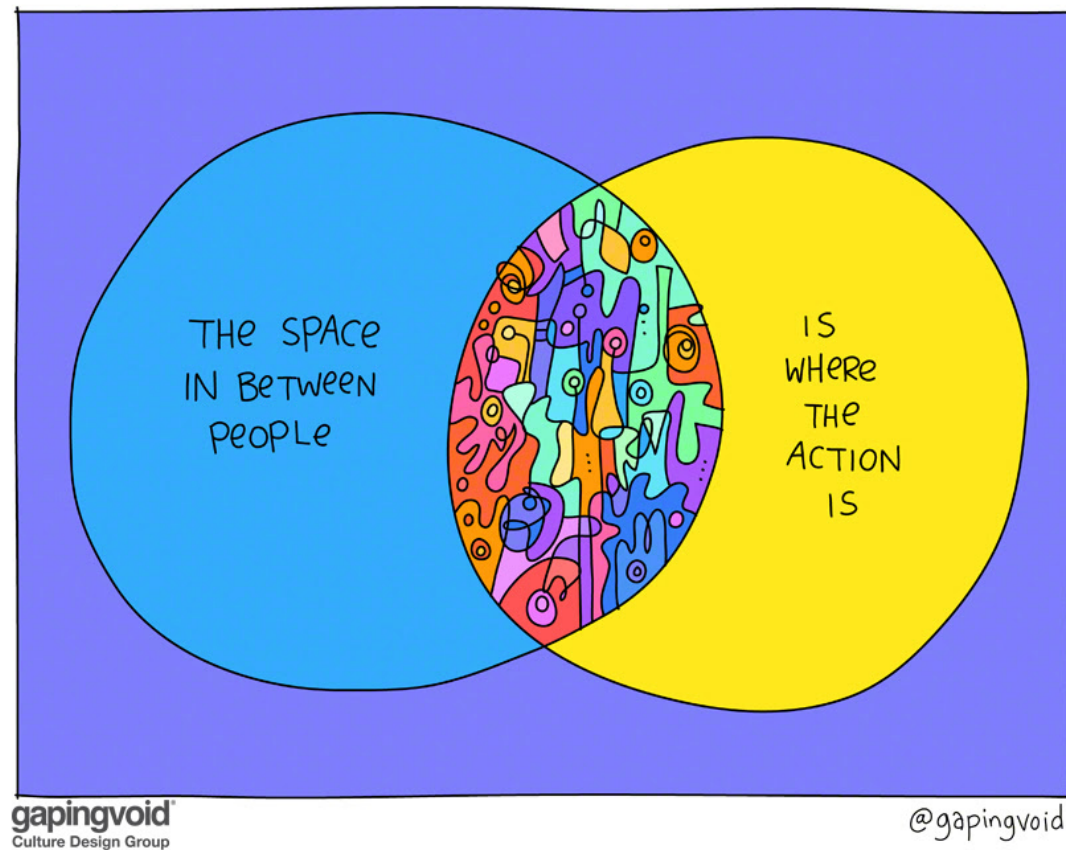
# What are apps for collaboration & learning?



- Exploration of technology in support of people working, learning, growing together
- Examples?
  - Email?
  - Wikipedia?
  - Amazon?
  - URCourses/Remote learning?
  - Discord
  - Etc.



# What are apps for collaboration & learning?

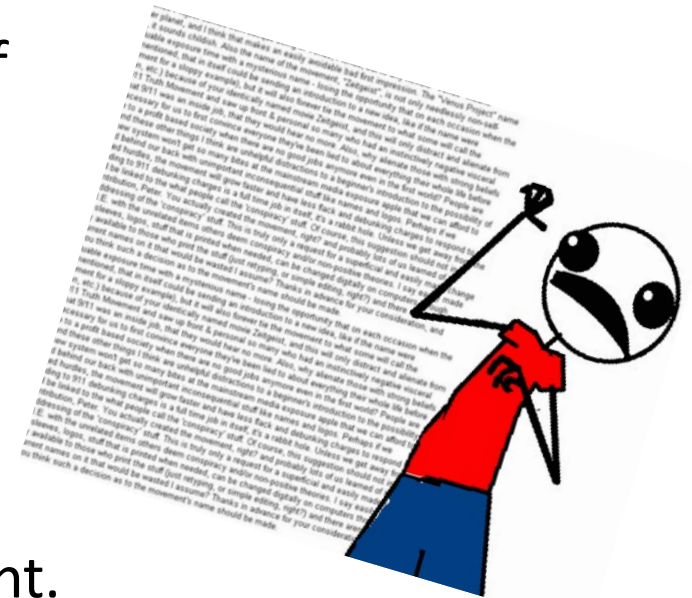


- G. Fischer. Topics in Symbolic Artificial Intelligence Design, Learning and Collaboration (1999). Online: <http://l3d.cs.colorado.edu/courses/csci7212-99/Syllabus.html> (Accessed April 2018)

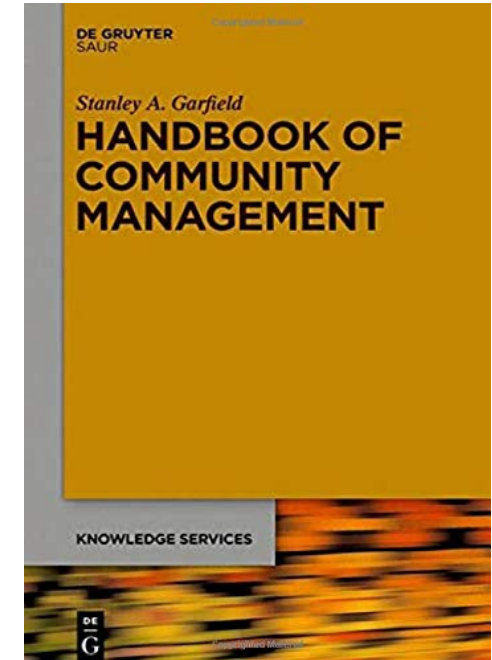
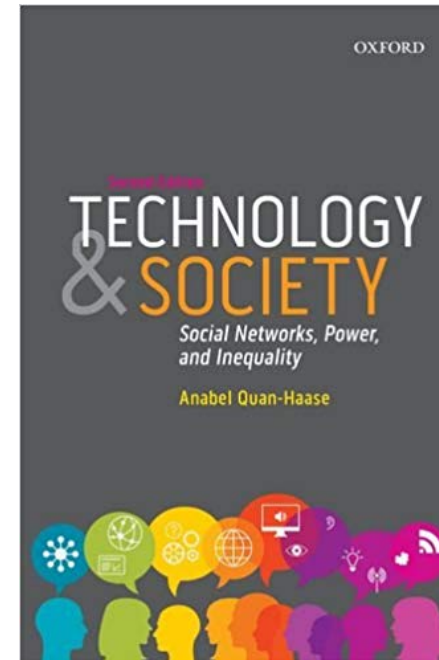
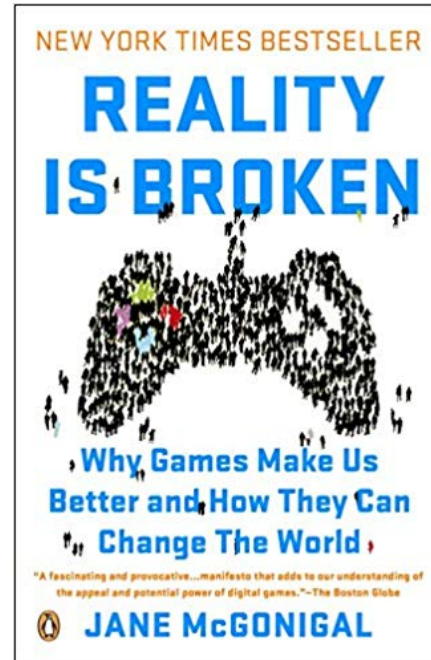
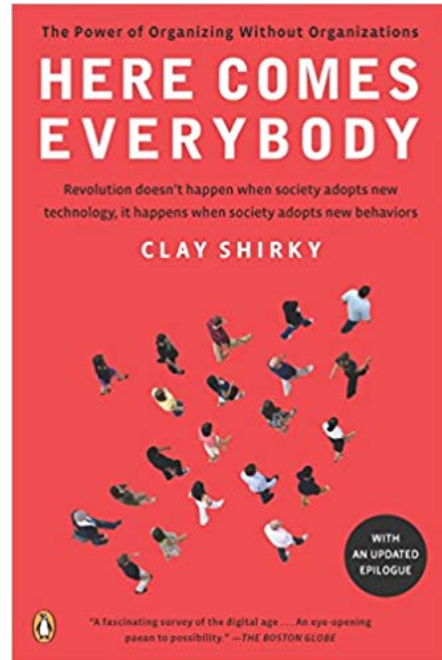


# What will we be doing, & why?

- Course description
  - Engineering user experiences for community-centred software applications (e.g., technology tools in support of collaboration, learning, & knowledge).
    - To take this course the student must be a Software Systems Engineering graduate student or have permission from the instructor
- Learning objectives
  - Exploring designing software systems in support of collaboration, societal learning, & knowledge management.
  - Agile & People-Centred Design approaches to systems design will be emphasized.



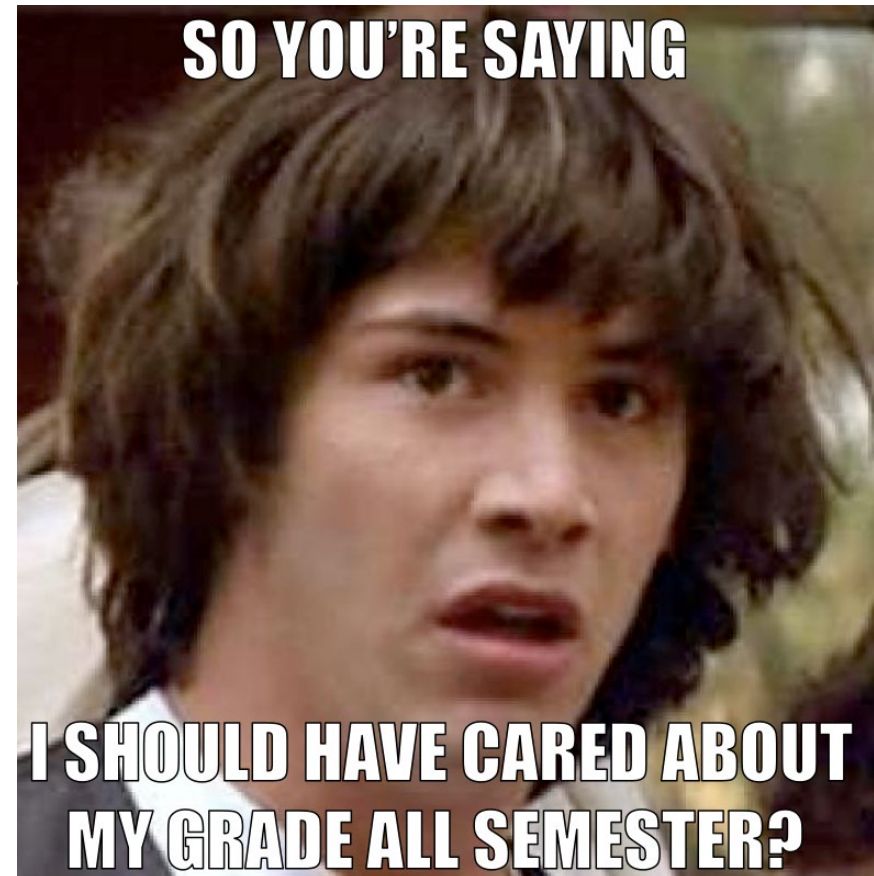
# Textbooks & resources



- Other resources will be posted in URCourses
- **NOTE:** All material used/discussed is considered testable content

# How about grading?

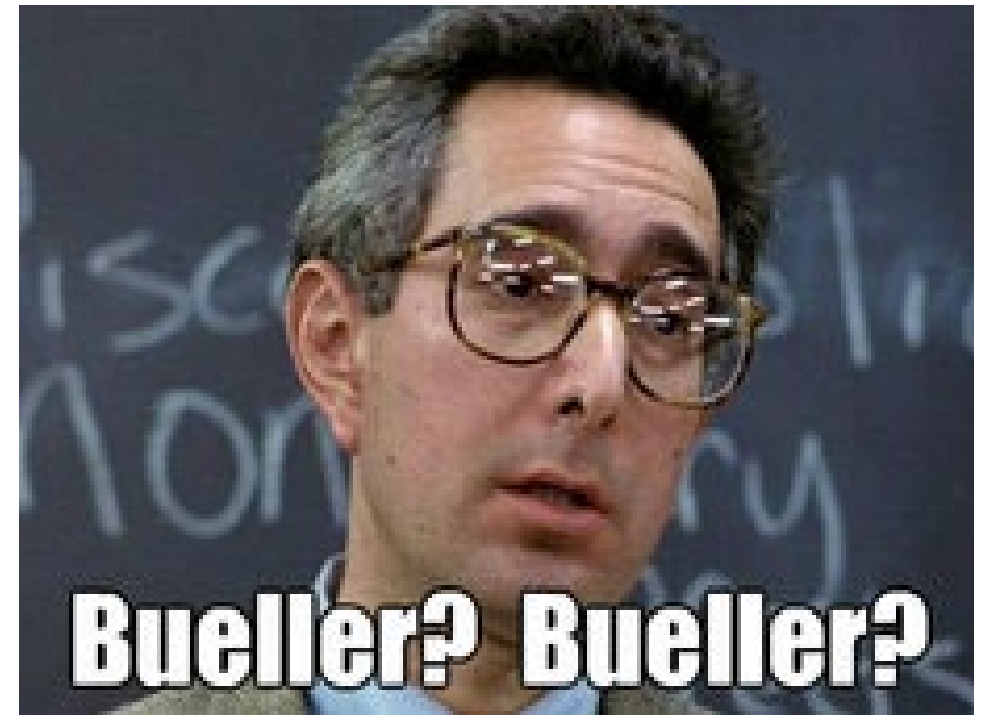
- Individual project: 35%
- Project report: 35%
- Lecture quizzes: 20%
- Participation & professionalism: 10%
- Instructor discretion: +/-5%





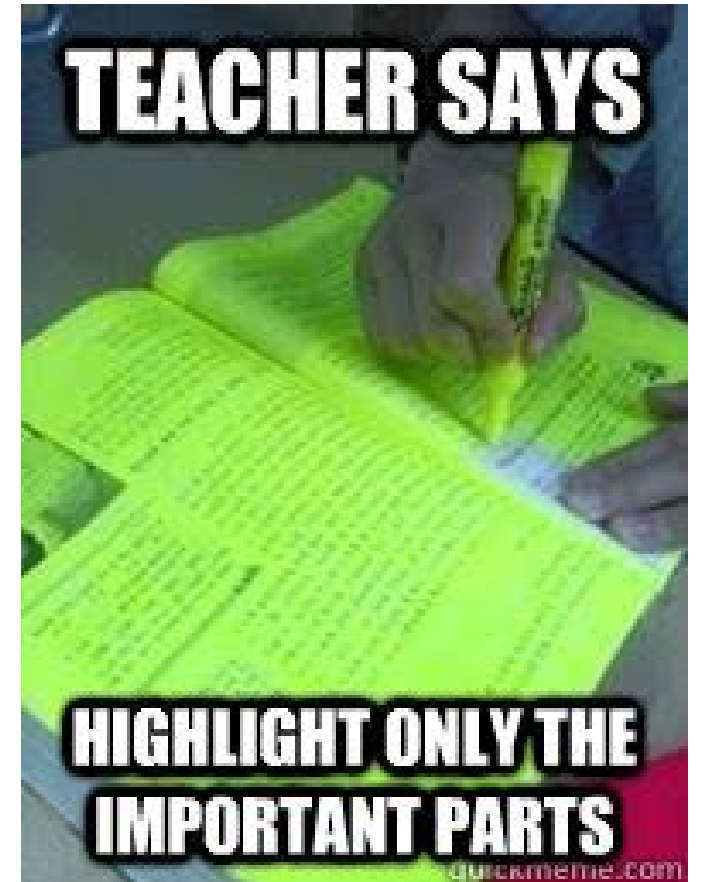
# Participation & professionalism

- Course attendance and tardiness will be observed and graded throughout the term
  - Did you know Zoom provides analytics!
  - For live Zooms, from time to time you may see a pop-up quiz asking if *you're still there*
- Tardiness is equivalent to non-attendance.



# Safety, behaviour, & ethics

- University of Regina, Student Behaviour
  - <https://bit.ly/2Kppljm>
- University of Regina, About plagiarism:
  - <https://bit.ly/2r9cREm>
- University of Regina, Health, Safety, & Emergency Preparedness:
  - <https://bit.ly/2HFi0KA>
- Special need policy
  - Contact the Centre for Student Accessibility
    - <https://www.uregina.ca/student/accessibility/>
  - (optional) Schedule a time to chat with the instructor



# Course project & report

- Individual work (code/report)



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- Exploring the design and development of collaborative learning and knowledge enabling technologies in support of the [UN's Sustainable Development Goals \(SDGs\)](#)



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- Individual work (code/report)
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- Dr. Esam Hussein (Pg.12-13, 2019)
  - ["Compassionate Professionalism & Social Sustainability"](#)



# Pragmatic philosophy

- Classes and job skills
  - Talent management/building
    - “Talent without training is nothing” - Skywalker
  - References for current and former students
    - Technology, business, education, and government

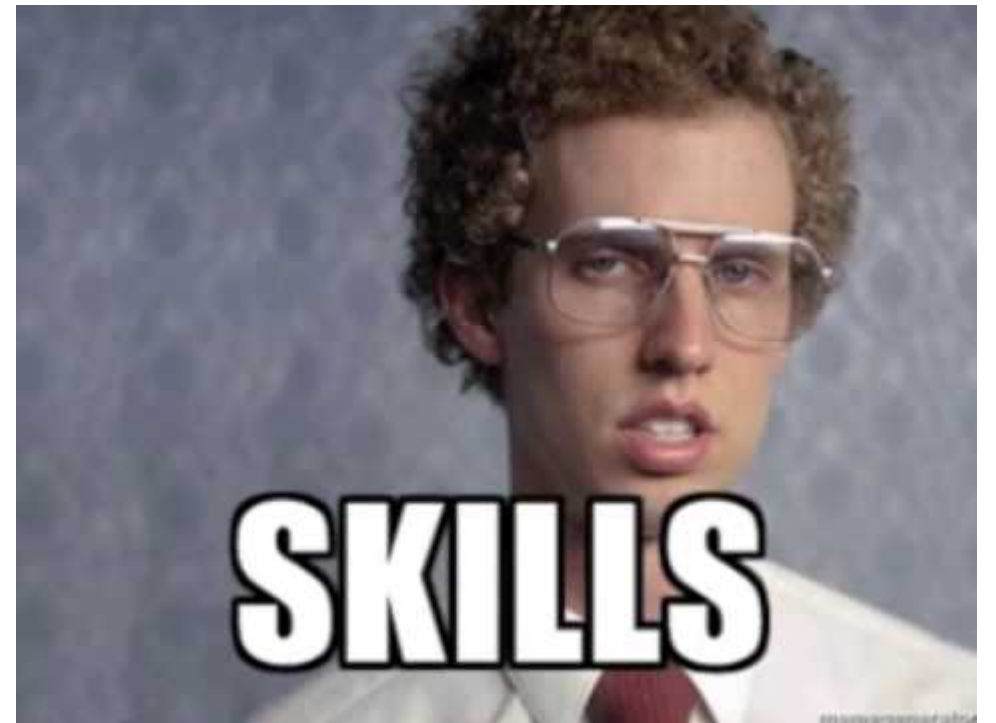


- Adapted from K. Arbuthnott of the Faculty of Psychology at the University of Regina. <https://www.uregina.ca/arts/psychology/faculty-staff/faculty/arbuthnott-katherine.html> (Accessed Jan 2019)



# Pragmatic philosophy

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- People skills
  - Communication
  - Teamwork
  - Leadership



# Pragmatic philosophy

- Productivity skills
  - Ability to take-in and use information
  - Problem solving
- Personal Characteristics
  - Responsible & reliable
  - Independence & initiative
  - Responsive to feedback
  - Flexibility

## Emotional Intelligence Domains and Competencies

SELF-AWARENESS	SELF-MANAGEMENT	SOCIAL AWARENESS	RELATIONSHIP MANAGEMENT
Emotional self-awareness	Emotional self-control	Empathy	Influence
	Adaptability		Coach and mentor
	Achievement orientation		Conflict management
	Positive outlook	Organizational awareness	Teamwork
			Inspirational leadership

SOURCE MORE THAN SOUND, LLC, 2017

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- Adapted from K. Arbuthnott of the Faculty of Psychology at the University of Regina. <https://www.uregina.ca/arts/psychology/faculty-staff/faculty/arbuthnott-katherine.html> (Accessed Jan 2019)

# Take responsibility

- A commitment to quality
- An active agreement
  - The right to analyze and reflect on what is being requested
  - The right to say no in an impossible, high risk situation (defend the risk/impossibility)
- Accepting responsibility
  - In saying yes to something you become accountable
- Honesty & integrity
  - Mistakes/errors happen – accept blame
  - Don't blame a vendor, programming language, management, your co-workers
  - Don't tell your boss “the cat ate my source code”



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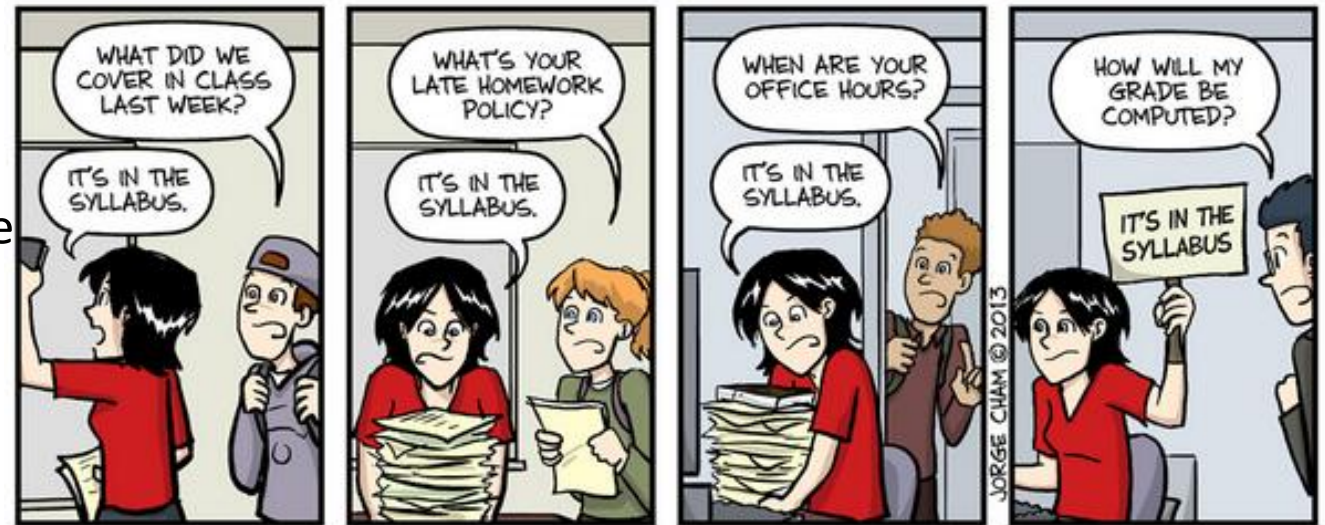
Provide  
options, not  
excuses





# Misc. notes

- Lectures will be a mix of
  - Content discovery and exploration
  - Project report-outs & activities
- Lecture content
  - Adapted from textbooks and online resources
  - Watch the lectures!
- Project & report
  - Focus on process, evaluation, and product delivery
  - Several MVPs are required
  - Report: IEEE format
- **The syllabus is the one source of truth**
  - ...and will be updated from time to time



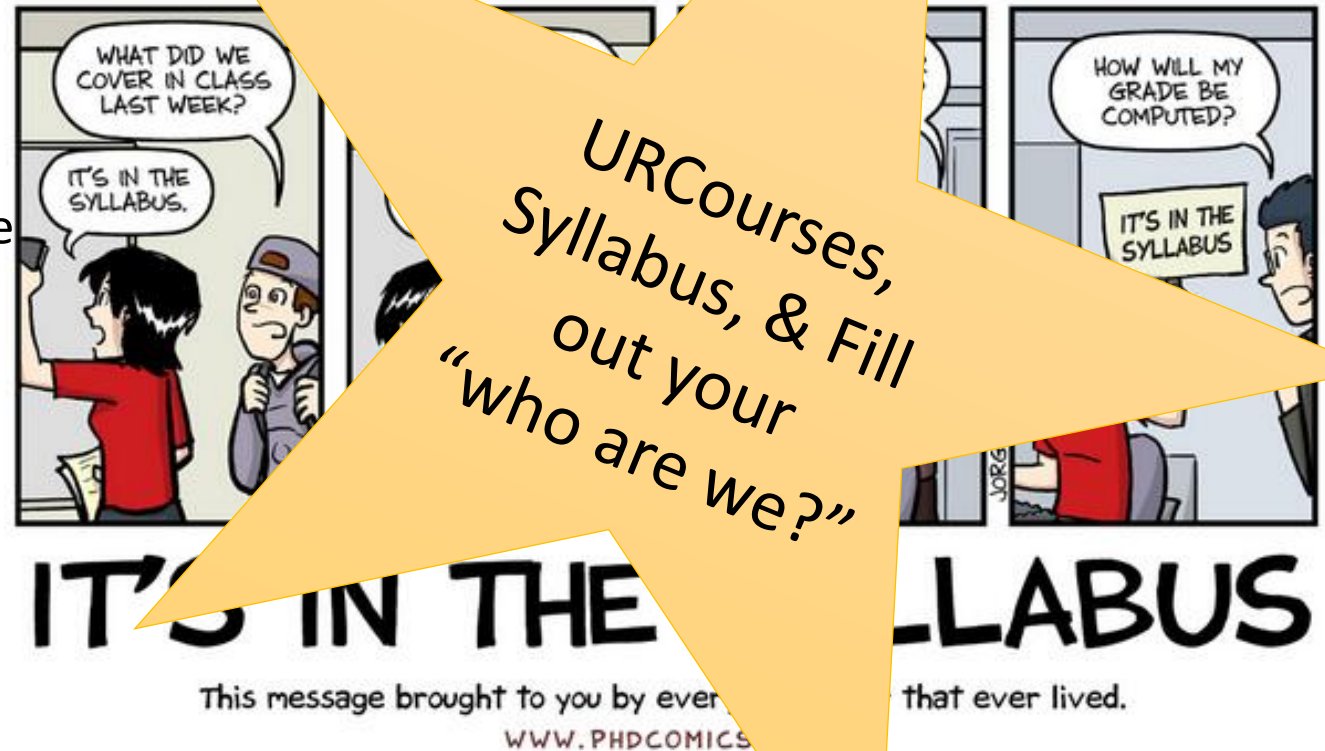
## IT'S IN THE SYLLABUS

This message brought to you by every instructor that ever lived.

WWW.PHDCOMICS.COM

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# Image refs

- College, <https://www.hercampus.com/school/mt-holyoke/15-relatable-college-memes>
- The dreaded wall of text, [https://imgur.com/t/wall\\_of\\_text/5S4RfCR](https://imgur.com/t/wall_of_text/5S4RfCR)
- Geeks and Nerds, <https://xkcd.com/747/>
- I Have no idea what I'm doing, <http://knowyourmeme.com/memes/i-have-no-idea-what-im-doing>
- Who are you, <http://s.quickmeme.com/img/2e/2ebdd72d0d3eefe2ef0ef625189a2e44aba62e2122095266dfe278b5ae8bd52f.jpg>
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- Important, [https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTodrvOMlkmcuecur53YZuKfdejilulYobO0oy\\_a5FIg3CsgkL2](https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTodrvOMlkmcuecur53YZuKfdejilulYobO0oy_a5FIg3CsgkL2)
- CoP, <http://www.memecreator.com/static/images/memes/268317.jpg>