Course Overview

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Kettering University

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What is a computer?

Course Overview

- Unit 1: The Course Awakens
 - Machine Model: Finite Automaton
 - Linguistic Model: Regular Expressions
 - Equivalence and Applications
 - Limitations
- Unit 2: The Last (In-First-Out) Automaton
 - Machine Model: Pushdown Automaton
 - Linguistic Model: Context-Free Grammar
 - Equivalence and Applications
 - Limitations
- Unit 3: The Rise Of Turing
 - Machine Model: Turing Machine
 - Equivalence to Modern Computing
 - Limitations
 - Dealing with Limitations

Course Structure

- Three Exams (one per unit)
 - Exam 1 (25%): 4th Tuesday (in-class, closed-book)
 - Exam 2 (25%): 7th Tuesday (in-class, closed-book)
 - Exam 3 (25%): 11th week (take-home, open-book)
- Weekly Group Homeworks (25% total)
 - Due on most Fridays (two per unit)
 - Assigned homework groups
 - (Please complete survey by Wednesday)
 - One submission per group
 - Group carrots and sticks
- Course curve applied to overall average

Academic Integrity

"Don't make me angry. You wouldn't like me when I'm angry."

—Bruce Banner

Attendance

Attendance is strongly encouraged.

► I'll make recordings as "supplemental materials", but they'll probably suck.

University policy (and Federal law) requires me to have you removed from class if you stop attending.

- In-class attendance
- Homework group participation
- Responding to email

Administrative Stuff

- Student Office Hours:
 - TF 9:00am-10:00am and 3:30pm-4:00pm, or by appointment
 - Physical Office: 2-300F AB
 - Digital Office: bit.ly/HugginsOffice
- Free Software: jflap.org
- All course documents on Blackboard
 - (Let's look together.)