CSE541: LOGIC IN COMPUTER SCIENCE

Semester: Fall 2024
Instructor: Amos Omondi
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Days: Mon, Wed
Time: 2:00 PM to 3:20 PM
Classroom: A312

Class website: *Brightspace*
If you are registered for the class, you will automatically be enrolled at the website. Otherwise, you will need to ask to be enrolled.

Office Hours
Monday, Wednesday, Friday: 10:00 AM to 12:00 NOON. These are times when I will definitely be in the office and available to discuss anything about the course. At other times, you may either make an appointment (by email) or just walk in (if I am in the office and not otherwise occupied).

Course Description
A survey of the logical foundations of mathematics and the relationships to computer science; development of propositional calculus and quantification theory; the notions of a proof and of a model; the completeness theorem.

Textbook
Anita Wasilewska. *2018. Logics for Computer Science*. Springer.

Flipped Learning
We will adopt the idea of flipped learning by using the class as the place to discuss and solve problems making use of the concepts that you learned from pre-lecture reading and video viewing and during the regular lecture. So, your active participation in the class will be important in your learning.

Grading Scheme
- Assignments (6*8% each): 48%
- Midterm Exam: 22%
- Final Exam: 30%

Attendance: *At least 80% is required to pass the course*

Policy on Lateness, Absence and Extensions
Late assignments will generally not be accepted. Only in exceptional circumstances will extensions to assignment deadlines be given. Any such request must be presented to the course instructor, with all supporting documentation, as soon as possible.

Policy on Collaboration
You are expected to work on each problem on your own and present your solution. You may use the textbooks, notes, lectures, etc. to help you find general strategies to solve the problems. You may discuss the strategies to solve these problems with your fellow students, but you should present the solution in your own way. Using other people's work or solutions, whether cited or not, is considered plagiarism and carries severe academic penalties. If you are unsure whether an activity may constitute plagiarism or undue collaboration, ask.

If you cheat, you will be referred to the appropriate office at the university, and the consequences might be severe. If you have any questions about what constitutes cheating, ask.

Disability
If you have a physical, psychological, medical or learning disability that may impact your course work, please let the instructor know. Reasonable accommodation will be provided if necessary and appropriate. All information and documentation are confidential.

Critical Incident Management
The University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn.