Computing Foundations II

1. **Class Hours:** Tuesday and Thursday (10:30-12:20)

2. **Recitation Hours:** Friday (Section 1: 12:30-1:20); (Section 2: 1:30-2:20)

3. **Course Objectives:** The course will provide a review of the fundamental concepts of computing. At the end of the course students should have a basic knowledge of Sets, Graphs, Patterns in Languages, Prepositional and Predicate Logic.

4. **Prerequisites:** Students planning to enroll in this course should have taken CS2100 or Math 2770.

5. **Topics:** (1 week = Two classes of 110 minutes each)
   (a) Week 1 Introduction and review of techniques for mathematical proofs
   (b) Week 2 Computing Performance of Algorithms (Homework 1 Assigned)
   (c) Week 3 Counting and Probability
   (d) Week 4 Sets, Relations, Functions
   (e) Week 5 Graph Theory
   (f) Week 6 Review and Midterm
   (g) Week 7 Automata: Regular Expression and Context Free Grammar (Homework 2 Assigned)
   (h) Week 8 Propositional Logic
   (i) Week 9 Predicate Logic
   (j) Week 10 Review and Finals


7. **Instructor:** Sanjukta Bhowmick
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8. **TA:** Prashant Venkata Yanambaka
   Office: F208
   Office Hours: Tuesdays and Thursdays 2-3 pm, Friday 2:30-3pm

9. **Course Announcements and Assignments will be emailed and posted on Blackboard.**

10. **Evaluation:** There will be a quiz every week on Thursday each worth 5%, anticipated 6 quizzes making a total of 30%. There will be 2 assignments worth 20%, total of 40%. There will be 2 exams (Midterm and Final) each worth 15%, total 30%