Information

- Please give me your **anonymous feedback** if you have any suggestions or complaints. That way, we can work together to enjoy this course.

Information

- **Instructor:** Mehrdad Nojoumian  
  **Office:** Faner 2132  
  **Office Hours:** TR 13:00 - 14:00  
  **Email:** nojoumian (at) cs.siu.edu

- **Teaching Assistant:** Laleh Asadzadeh  
  **Office:** Faner 3131  
  **Office Hours:** MWF 13:00 - 14:00  
  **Email:** asadzadeh (at) siu.edu

- **Lectures:** Tuesdays 09:00 - 10:50 & Thursdays 09:00 - 09:50 in Faner 2127.

- **Help Session:** Thursdays 10:00 - 10:50 in Faner 2127.

- **Marking Scheme:** Assignments and Quizzes: 40%, Two Midterm Exams: 30%, Final Exam: 30%, and Participation: 5% Bonus.

  Slides have been significantly changed and taken from McGraw-Hill: Instructor Resources.

Lectures

1. **Jan 14 - Jan 16:** Propositional Logic  
2. **Jan 21 - Jan 23:** PL Applications and Equivalences  
3. **Jan 28 - Jan 30:** More Discussions on Quantifiers
4. **Feb 04 - Feb 06**: Rules of Inference and Proofs  Set Operations and Identities

5. **Feb 11 - Feb 13**: Functions  Sequences and Summations

6. **Feb 18 - Feb 20**: **Feb 20: Midterm Exam-1**  Cardinality of Sets and Matrices

7. **Feb 25 - Feb 27**: Algorithms  Growth of Functions

8. **Mar 04 - Mar 06**: Complexity of Algorithms

9. **Mar 11 - Mar 13**: Spring Vacation

10. **Mar 18 - Mar 20**: Number Theory (1)  Number Theory (2)

11. **Mar 25 - Mar 27**: Number Theory (3)  Cryptography

12. **Apr 01 - Apr 03**: **Apr 01: Midterm Exam-2**  Induction

13. **Apr 08 - Apr 10**: Recursion  Counting

14. **Apr 15 - Apr 17**: Permutations and Combinations

15. **Apr 22 - Apr 24**: Discrete Probability

16. **Apr 29 - May 01**: Bayes, Expected Value and Variance

17. **May 08**: Final Exam - Thursday from 07:50 to 09:50 AM.

### Assignments

1. **Jan 28**: Due date: Feb 04 @ 09:00 am

2. **Feb 04**: Due date: Feb 11 @ 09:00 am

3. **Feb 11**: Due date: Feb 18 @ 09:00 am

4. **Feb 18**: Due date: Feb 25 @ 09:00 am

5. **Mar 11**: Due date: Mar 18 @ 09:00 am

6. **Mar 18**: Due date: Mar 25 @ 09:00 am

7. **Mar 25**: Due date: Apr 01 @ 09:00 am

8. **Apr 08**: Due date: Apr 15 @ 09:00 am

9. **Apr 15**: Due date: Apr 22 @ 09:00 am
Course Policies: It is important to attend all lectures since discussions and clarifications will not be posted on the course homepage. I will consider 5% bonus marks for students' participation and class activities. Students are not allowed to use laptops, smart phones, tablets, etc in the class. All assignments are due at 09:00 am on the due date. Late assignments will lose 10% of the total points for each day they are late and they will not be accepted after three days. Students with disabilities should come and see me. Finally, all exams will be closed-book and there will be no make-up unless a medical report is provided.

Academic Integrity: By enrolling in this course, each student assumes the responsibilities of an active participant in SIUC’s scholarly community in which everyone’s academic work and behaviors are held to the highest standards of honesty. If we catch anyone cheating, we will take the maximum action possible against them, including reporting the matter to the appropriate university authorities. Please cooperate by doing your own work and not seeking inappropriate help from your classmates. You may, of course, discuss assignment solutions and assignments amongst yourselves, as long as that discussion does not lead to an exchange of solutions.

Emergency Procedures: SIUC is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIUC Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in buildings on campus, available on BERT's website, Department of Safety's website (disaster drop down) and in Emergency Response Guideline pamphlet. Know how to respond to each type of emergency. Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency. The Building Emergency Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility.