## Mathematics 181 G1, Fall 2016.

**Instructor:** Amita Malik
**Office:** 169 Altgeld Hall
**E-mail:** amalik10@illinois.edu
**Class schedule:** MWF 3:00 – 4:50 PM, 149 Henry Administration Building
**Office hours:** M 2:00 – 2:50 PM (or by appointment), 169 Altgeld Hall

**Text:** "For All Practical Purposes: Mathematical Literacy In Today's World," 10th ed., W.H. Freeman and Co. This book will be on reserve in the Mathematics Library.

**Course Description:** This course is an introduction to selected areas of mathematical sciences through application to modeling and solution of problems involving networks, circuits, trees, linear programming, random samples, regression, probability, inference, voting systems, game theory, symmetry and tiling, geometric growth, comparison of algorithms, codes, and data management.

**Homework and Project:** Optional homework will be assigned in each class. Suggested practice problems from the book serve as preparation for quizzes and exams. In addition, students will complete a group project analyzing a topic of interest to them (and of some relation to mathematics), and approved by the instructor. A project proposal is due Monday, November 7, and the final project will be due in late November. If you have any question about the project, you are encouraged to discuss this with me during our office hours.

**Quizzes and Exams:** There will be 10-15 minute quizzes in each class. There will also be two in-class exams (Friday, November 4, and Wednesday, December 2). The lowest quiz score will be dropped at the end of the semester. There will be no make-up exams or quizzes. If you must miss an exam due to illness or another emergency, then within one week of the exam date you must contact the Emergency Dean (300 Turner Student Services Building, 610 East John St., 333-0050) and ask for a letter excusing your absence. The grade on the corresponding part of the final exam will replace the zero for the missed exam. This replacement policy may be used for only one missed exam.

**Final Exam:** The final exam will be administered on Friday, December 9, 8:00-11:00 AM in the usual classroom. The exam will be cumulative. Failure to take the final exam will result in a failing grade for the semester, regardless of current standing in the class.

- **Grading:**

15%, Homework and/or Group projects:
15%, Quizzes
45%, 2 exams (22.5% each)
25%, Final exam

**Code of Conduct:** To facilitate an appropriate learning environment, it is essential that all distractions be kept to a minimum. Students should arrive on time and be ready to learn. All cell phones should be silenced and music players put away at the beginning of class. Students who carry on conversations, text message, use laptops, or eat noisily during class will be asked to do so outside of the classroom.

**Attendance Policy:** It is your responsibility to come to class. If you miss all or part of a class, you should contact someone else in the class to get the lecture notes and announcements. There will be <u>exact</u> 10 minute long break at 3:50 PM and we will have a quiz/group worksheet at 4:00 PM.

**Academic Honesty:** All violations will be dealt with in accordance with University policy. Cheating on quizzes, tests, or the final exam is strictly prohibited and will result in serious consequences. In particular, cheating may result in an "F" for the course and be reported to both the students' college and the Senate Committee on Student Discipline.

**Accommodations:** Students with disabilities who require reasonable accommodations to participate in this class should see me and contact DRES (www.disability.uiuc.edu) as soon as possible. I need to be notified with official documentation no later than one week into the course. Any accommodation on tests must be made at least one week in advance and will require a letter from DRES.

**Extra Help:** Please do not hesitate to come to my office during office hours or by appointment to discuss a homework problem or any aspect of the course. Information about tutoring can be found at http://www.math.illinois.edu/UndergraduateProgram/tutoring.html. Additional resources are your classmates who are all working on the same material, so you are encouraged to work together on the homework.

Let's make it an enjoyable and productive semester by playing our respective roles as best as we could!