**Course Information Sheet**
MATH 5010, Section 1
MATH 6805, Section 1
Introduction to Probability, Spring 2018

**Instructor:** Jyothsna Sainath  
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**Class Hours:** MWF 9:40 AM -10:30 AM, BU C 208

**Office Hours:** 3 - 4 PM, MW or by appointment.

**Course Material:** Required: Lecture Notes posted on Canvas.  
Required: *Basic Probability Theory* (by Robert Ash, available free online.)  

**Description:** This is an introductory course in Probability at the undergraduate level. The course assumes an understanding of Calculus I, II, and III. The class will follow the lecture notes posted on canvas very closely. Students are expected to read the notes thoroughly BEFORE coming to a class. The instructor’s role would be to summarize the contents of the notes and to provide clarifications where needed. A bulk of the class period will many times be devoted to solving problems. HWs may be assigned either from the problems in the notes or from outside the notes. All problems in the notes are part of the syllabus for the exams unless explicitly stated. Students are expected to work them on their own and seek clarifications during office hours if necessary. The expected learning outcomes are:

1. Basics of probability and combinatorial background to probability
2. Random variables
3. Distributions
4. Independence
5. Conditional probability
6. Expected value and moments
7. Law of large numbers
8. Central Limit Theorem

**Quizzes:** There will be a quiz every Friday. There will be no make-up or rescheduling of quizzes. Two of the lowest quiz scores will be dropped at the end of the semester.

**Home Work:** There will be a homework approximately every week. Late work will not be accepted. Two of the lowest HW scores will be dropped at the end of the semester.

**Exams:** There will be 2 mid terms (very likely on Fridays, 16th February and 6th April) and a final exam. Only the final will be comprehensive. The final exam will be held on Wednesday, May 2, 2018 from 8:00 to 10:00 am. All exams, midterms and the final will only be given at the scheduled time. Students are expected to arrange personal work around the announced dates. Please come by and talk to the instructor, ONLY in the event of the most extenuating of circumstances.
**Grading:** The minimum scores to guarantee a certain grade are: 90 for an A, 80 for a B, 70 for a C and so on. This is a rough guide and may be subject to change. The break up of points on this course is as follows:

- 2 Mid Term exams: 20 % each
- Final Exam: 30 %
- Quizzes: 15 %
- Home work: 15 %

**ADA Statement:** The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Olpin Union Building, 581-5020 (V/TDD). CDS will work with you and the instructor to make arrangements for accommodations. All information in this course can be made available in alternative format with prior notification to the Center for Disability Services.

**Tutoring:** The Rushing Math Center offers free drop-in tutoring, a computer lab, and study 2 areas for undergraduates. The Rushing Student Center is adjacent to the LCB and JWB. The hours for the Fall semester are: 8 am – 8 pm Monday to Thursday and 8 am – 6 pm on Friday. The tutoring center will open the second week of classes.