MATH 302 Course Outline 2022 WT1

GENERAL POLICIES AND SYLLABUS INFORMATIONLinks to an external site.

ABSENSE FROM CLASS AND MISSED ASSESSMENTS: If you are unable to attend lectures in person for whatever reason (visa issues, absence due to illness, emergency travel), you will be expected to follow all posted announcements and modules for your section and read the corresponding sections of the textbook. In particular, no exemptions or special allowances will be made for late submission of homework, which you will be expected to submit on time. You must inform your instructor in case you missed the midterm, and follow the procedure in the General Policy link above for academic concessions. If you are granted an exemption from the midterm by your instructor, then your grade for the test will appear as ``E" in the Canvas gradebook, and a ``scaled version" of your final exam grade will later be used to replace your missing grade for the midterm, and the scaling will be done in a way which is fair to everyone.

Textbook: We follow the book “Introduction to Probability” by Anderson, Seppalainen, and Valko. This is a relatively challenging and precise textbook. Each lecture will correspond with subsections of the textbook, see the table below for a tentative schedule.

Other references of interest are R. L. Scheaffer, “Introduction to Probability and its Applications”, and S. M. Ross, “A First Course in Probability”.

Piazza: This is an online discussion board where you may post questions and look for teammates to help understand the material. Students are encouraged to address student questions -- this is meant to be a collaborative space. You may ask for help with homework questions, and while hints may be given, solutions should not. Both sections share the same piazza page. Substantial contributions to discussions on Piazza may be rewarded in the final grade.

Reading: You should read the corresponding part of the textbook before lecture keeping an eye out for concepts that you don't understand which can be clarified in lecture. After lecture, you should work out one or two problems from the covered sections to solidify your new knowledge.

Assignments etc:

Written homeworks: Each assignment will be due on Monday by 11:59pm. Solutions should be submitted as a single file through canvas. You may write answers by hand and scan or take pictures of your work, or you may type up solutions. **Late homework will not be accepted. The two lowest homework scores will be dropped. You are required to explain the mathematical logic behind your answers.**

Midterm: There will be a midterm. Tentative date Oct 21st (plus minus a week).

Grading scheme:

Homework: 30%

Midterm: 25%

Final exam: 45%

Academic integrity: GENERAL POLICIES AND SYLLABUS INFORMATIONLinks to an external site.

Students may work together to understand the homework problems, but are expected to write their solutions independently. No two homeworks should look identical. Students may research concepts online, but may not use solutions which are found online.

Week-by-week schedule: (We may get ahead or behind, but plan to cover the following sections in the following order. Depending on time, some sub-sections may be omitted.)

Week	Textbook sections	Notes
Sep 7-9	1.1-1.3	
Sep 12-16	1.4, 1.5, 2.1	
Sep 19-23	2.2- 2.4	
Sep 26-28	2.5, 3.1-3.2	No class Sep 30th (National day for Truth and Reconciliation)
Oct 3-7	3.3-3.5,	
Oct 12-14	4.1-4.3	No class Oct 10 (Thanksgiving)
Oct 17 - 21	4.4, 4.5, 5.1	Midterm (tentatively on Oct 21st)
Oct 24 - 28	5.2, 6.1 - 6.2	
Oct 31 - Nov 4	6.3, 7.1, 8.1	
Nov 7	8.2	Midterm break Nov 9-11
Nov 14 - 18	8.3, 8.4, 9.1,	
Nov 21 - 25	9.2, 9.3, 10.1	
Nov 28 - Dec 2	10.2, 10.3	
Dec 6	Review	Dec 6 is last day of classes