

SYLLABUS FOR MATH302501

Discrete Mathematics, Spring 2010

The syllabus for MATH302, Section 501, Spring 2010 given below is closely modeled on the suggested syllabus on the departmental website (where Chapter and Section numbers refer to the 5th edition of the textbook – we use the 6th edition), and is close to the syllabi of other MATH302, Spring 2010 instructors. There are a few differences in the choice and order of the topics. If we have time left over near the end of the semester, we will add some topics. Please note that the syllabus below is a guideline only, especially as regards the timetable. The timing of the topics, and some of the content, will *definitely* vary as we go along, depending on what transpires in class. I will keep the syllabus *updated regularly*. Please note that all Chapter and Section numbers refer to the 6th edition of the text. Notation: for example, §2.3 means Chapter 2, Section 3.

SYLLABUS FOR MATH302501:

- Week 1 (01/19; 01/21): Introductory remarks, §1.1
- Week 2 (01/26; 01/28): §1.1; §1.2; §1.3
- Week 3 (02/02; 02/04): §1.5; §2.1; §2.2; §2.3
- Week 4 (02/09; 02/11): §3.2; Handout on complexity
- Week 5 (02/16; 02/18): §1.6; §1.7; §2.4
- Week 6 (02/23; 02/25): §4.1; §4.2; EXAM I (on 02/25)
- Week 7 (03/02; 03/04): §4.1; §4.2; §5.1; §5.2
- Week 8 (03/09; 03/11): §5.3; §5.4
- Week 9: (03/15 to 03/19): Spring Break
- Week 10: (03/23; 03/25): EXAM II (on 03/23); §5.5
- Week 11: (03/30; 04/01): §7.1; §7.2
- Week 12: (04/06; 04/08): §7.2; §7.3
- Week 13: (04/13; 04/15): Handout on divide and conquer; §7.4
- Week 14: (04/20; 04/22): §8.1; §8.5; EXAM III (on 04/22)
- Week 15: (04/27; 04/29): §8.3; §3.4; Review
- Week 16: (05/04): Review

N.B: Exam I will cover the material from Weeks 1, 2, 3, 4. Exam II will cover the material from Weeks 5, 6, 7, 8. Exam III will cover the material from Weeks 10, 11, 12, 13. The final exam will be comprehensive (i.e. cover material from the entire semester).