

MHF 3202 (Section 4125)

Time and Location

MTuWThF Period 3 (11:00-12:15) LIT 207

Office hours

W 4 Th 4 F 5

Text

“How To Prove It: A Structured Approach” (Second Edition) – D. J. Velleman

Course description

We shall cover selected topics from the adopted text: material from the first four chapters will be discussed in the order in which it appears in the text; material from chapters five, six and seven will then be chosen according to remaining time and prevailing taste. The development of critical skills and proof techniques is an especially important aim of the course.

There will be four in-class tests: Test 1 at the end of second week, Test 2 at the end of fourth week, Test 3 at the end of fifth week and Test 4 at the end of sixth week; each of the first two tests will have twice the weight carried by each of the last two tests. Homework problems (see the list below) will be assigned and discussed but will not contribute towards the grade, which will be assigned on the basis of performance in tests according to the following scale: A 90%, B 80%, C 70%, D 60%, with 3% increments above/below for plus/minus grades.

Make-ups will be allowed for the usual reasons (such as illness or accident) supported by documentary evidence.

Homework problems

The following list will be update once we pass Chapter Four.

1.1: 6, 7bc
1.2: 3, 4, 6, 7bc, 8, 12, 17
1.3: 2, 6, 8
1.4: 5, 7, 8, 9, 12(not by Venn diagram)
1.5: 2, 5, 6, 7, 10
2.1: 2, 3, 5, 6
2.2: 2, 7, 8, 11, 12
2.3: 2ab, 4, 5, 10, 11, 12b, 14
3.1: 5, 6, 8
3.2: 2, 3, 4, 5, 12
3.3: 2, 3, 9, 10, 17
3.4: 2, 4, 5, 21
3.5: 2, 4, 5, 8, 22, 27
4.1: 3, 5, 8, 9, 10, 12
4.2: 2, 6, 7, 8, 9, 10
4.3: 6, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 22
4.4: 1, 2, 4, 7, 8, 9, 10, 11, 14, 15, 16
6.1: 2, 4, 5, 6, 7, 11, 12, 13, 16
6.2: 5, 6, 10, 11
6.3: 1, 4, 10, 17