UConn's MATH 2710Q
Fall 2017 Syllabus

Transition to Advanced Mathematics

Math 2710 › Fall 2017

General Info

Instructor: Damir Dzhafarov
Office: MONT 441
Email: damir@math.uconn.edu
Office hours: TBA, and by appointment.
Lectures: Mondays, Wednesdays, Fridays, 12:20–1:10pm, in MONT 320.
Text: *Introduction to Mathematical Thinking: Algebra and Number Systems* (1st Edition) by Will J. Gilbert and Scott A. Vanstone.

Tentative schedule

(Subject to change. Please check back frequently.)

Week 1: 1.1-1.6.

Homework 1. Text, p. 20: 1, 5, 6, 9, 12, 26, 28, 33, 37, 39, 45, 62, 66, 71. Solutions.

Week 2: 1.5, 1.6.

Homework 2. Text, p. 50: 2, 5, 7, 10, 11, 12, 27, 28. Solutions.

Week 3: 2.1, 2.2, 2.3.

Homework 3. Text, p. 50: 9, 19, 21, 22, 24, 49, 70, 71, 74, 83. Solutions.

Week 4: 2.3, 2.5.

Homework 4. Text, p. 82: 2, 3, 4, 5, 6, 8, 9, 10. Solutions.

Week 5: 2.5, 3.1, 3.3, 3.4.

Homework 5. p. 82: 22, 24, 25, 26, 29, 30, 42, 44, 45, 48. Solutions.

Week 6: 3.4, 3.5, review.

Midterm exam information. Make sure you have read and understood Sections 1.1–1.6, 2.1, 2.2 (excluding the extended Euclidean algorithm), 2.5, 3.1, 3.3, 3.4, and 3.5, including the proofs of all theorems. Review all past homework assignments.

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Homework 6/Review (to be collected on Friday in class). p. 22: 73, 76, 78; p. 50: 14, 16, 18; p. 52: 79; p. 82: 1, 5, 7, 23, 27; p. 84: 56.

Week 7: 4.1, 4.2; first midterm exam.

Homework 7. p. 105: 11, 12, 17, 18, 20, 21, 22, 27, 29, 30.

Week 8: 4.2, 4.3.

Homework 8. Text, p. 105: 33, 34, 36, 38, 39, 40, 43, 45.

Week 9: 5.1, 5.2, 5.4.

Week 10: 5.4, 6.1, 6.2.

Week 11: 6.3, 6.4, 6.5, 6.6 review.

Week 12: Second midterm exam; 6.6, 8.1.

Week 13: Thanksgiving recess.

Week 14: 8.1, 8.2, 8.3.

Week 15: 8.5, 8.6, 8.8.

Week 16: Final exam.

Quizzes/homework

Exercises from the text will generally be assigned on Friday of each week. Complete solutions will be posted online one week later.

Homework sets will only be collected during exam weeks (weeks 7 and 12).

Outside of exam weeks, the homework will not be collected. Instead, there will be an in-class quiz one week after each homework set is assigned, consisting of two exercises chosen from that set.

Each quiz and collected homework set will have equal weight for grading purposes.

Exams

There will be two midterm exams: one on Friday, October 13, covering roughly Chapters 1-3; and the other on Friday, November 17, covering roughly Chapter 4-6. There will also be a cumulative final exam, data and time TBA.

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Grading

The course grade will be the average of the quizzes/homework (25%), the two midterm exams (25% each), and the final exam (25%). If your score on the final exam is higher than this average, your final exam score will count as your grade. Your lowest three quiz/homework scores will be dropped.

Policies

The course follows the University's syllabus policy.

No make-up exams will be given and no late homework will be accepted.

All students are expected to abide by the University's Community Standards at all times.