

Syllabus
Math 221 – Formal Logic and Discrete Mathematics
Fall 2008

Instructor: Dr. Rakhim Aitbayev, Weir 236, x5463, aitbayev@nmt.edu,
 Office hours: W 8:30–10:30 A.M., TR 9:30–10:30, 3:30 – 4:30 P.M.

Course webpage: www.nmt.edu/~aitbayev/math221

Catalog description: Analytical reasoning and critical thinking skills. Induction and recursion. Mathematical proofs. Propositional calculus and predicate calculus. Discrete and combinatorial mathematics: sets, functions, relations, trees, and graphs, permutations and combinations. (3 cr, 3 cl. hr.)
 Prerequisite: MATH 132 passed with grade *C*– or better.

Course content: Chapters 1–5, 7, and 9 of the textbook.

Time and place: TR 11:00–12:15 P.M., Wier 202

Textbook: *Discrete Mathematics and its Application*, 6th edition, by Kenneth Rosen, McGraw-Hill, 2007, ISBN: 978-0-07-288008-3. Textbook web support: www.mhhe.com/rosen

Graded assignments: Homeworks, quizzes, and tests.

- Homework assignments are posted on the course webpage, and they are due on Thursdays in class. Late homeworks are not accepted. The lowest homework score does not count toward the final grade.
- Announced quizzes are given about once a week. The lowest quiz score does not count toward the final grade.
- There will be three tests during the semester.

Course grade composition:

Homework	Quiz	Test 1	Test 2	Test 3
20%	20%	20%	20%	20%

Course grade scale

Course score (%)	0–60	60–66	66–69	69–72	72–76	76–79	79–82	82–86	86–89	89–92	92–100
Letter grade	<i>F</i>	<i>D</i>	<i>D</i> +	<i>C</i> –	<i>C</i>	<i>C</i> +	<i>B</i> –	<i>B</i>	<i>B</i> +	<i>A</i> –	<i>A</i>
Grade points	0.00	3.00	3.99	5.01	6.00	6.99	8.01	9.00	9.99	11.01	12.00

Course policy:

1. Students must follow the *Academic Honesty policy* (see NMT Course Catalog).
2. Individual work is required for all graded assignments.
3. Make-up test could be given only in exceptional situations with a documented evidence of the excuse.
4. Notes and cheat sheets are not allowed on quizzes and tests, but you may use a calculator.