

Syllabus
MATH 4v91.001
MW 3:30-4:45
CBW 1.105
Spring 2006

Instructor: Dr. Titu Andreescu

Text Book: Mathematical Olympiad Challenges, by Titu Andreescu and Razvan Gelca

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Course Description:

The course focuses on important problem solving techniques and methods of proof. It is intended for the serious mathematics students who want to broaden and enhance their mathematical horizons. Mathematics and computer science majors, as well as students from engineering or other related areas enrolled in this class will hone their problem solving skills and deepen their understanding of mathematics.

Introduction.

1: Geometry and Trigonometry

2: Algebra and Analysis

3: Number Theory and Combinatorics

Problem Assignments:

Problems will be assigned on a regular basis. Answers to most of these problems are given at the back of the textbook. You should work several exercises from each section. Working more problems from the textbook is strongly encouraged.

Projects:

All students are expected to submit the projects at the announced time. Students are required to inform the instructor of suspected honor code violations. If you miss a project, the grade will be recorded as zero unless you contacted the instructor IN ADVANCE and agreed upon a procedure to make it up. You are responsible for all announcements made in class, including homework assignments and changes in the schedule. Unsatisfactory attendance will affect your final grade.

Calculation of Final Grade

$$FG=25/100(E1)+25/100(E2)+25/100(E3)+25/100(FE)$$

[97, 100] A+

[93, 97) A

[90, 93) A-

[87, 90) B+

[83, 87) B
[80, 83) B-
[77, 80) C+
[73, 77) C
[70, 73) C-
[65, 70) D+
[60, 65) D
[55, 60) D-
[0, 55) F-

Important Dates (subject to change)

Feb. 20: Project 1, (subject to change)

Mar. 13: Project 2, (subject to change)

Apr. 10: Project 3, (subject to change)

Apr. 28: Final Project, in class (2:00 pm)

The instructor reserves the right to adjust this syllabus as he deems fit.