

## MATH 5370, Mathematical Processes and Practices

# SYLLABUS

**Instructor:** Dr. Piotr J. Wojciechowski \ voy-che-HOF-skee \

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**Textbook:** Handouts given in class and (optional) high school mathematics textbooks

**Notebook:** Notes must be taken during the class. The content of the board must be copied to the notebook. It is strictly required to know the material written on the board.

**Grading policy:** There will be three exams 100 pts. each, and the final also 100 pts. The letter grade for the course is based on the 400 points: A is 360 or more, B is between 320 and 360, C is between 280 and 320, D is between 240 and 280, F is below 240.

**Drop deadline:** TBA

**Structure of the course:** The course will teach rigorous mathematical approach to problems at high school level. Numerous handouts of problems will be given and solutions deeply discussed. Mathematical concepts needed for the solutions will be provided by means of supplementary lectures, if found necessary. Students will be exposed to some basic topics from elementary mathematics, algebra, analysis, plane and space geometry with elements of analytic geometry and trigonometry, and probability. Pedagogical issues will be shared in class as they arise in reference to discussed mathematical problems. The main focus and objective is mathematical correctness of reasoning, precision of expression, use of mathematical language and symbols and methods of conveying these to students.

**Homework:** A great deal of concentration of the course is stressed on homework. There will be homework assigned each class and due in writing the next class. Having learned how to do and how to write the homework is a key to success in this course, since the exams will be based on and look like the homework.

**Time allocation:** A student should allocate at least 2 hours daily to study for this course.

**Academic honesty:** All suspected cases of dishonesty will be reported to the Office of Student Conduct.

**Disability issues:** cass@utep.edu

**UTEP and College of Sciences rules and regulations:** all apply.