Basic Course Information

Meeting Time: TR 10:30-11:50
Meeting Location: Ryerson Physical Laboratory, Room 358
Text: (none)
Web Site: http://math.uchicago.edu/~mcreek/fall_2015/math_16100/index.html
Clinic Time: M 17:00-18:00
Clinic Location: Eckhart Hall, Room 207

Instructors

Name: Matthew Creek Asilata Bapat
Office: Eckhart Hall, Room 306 Eckhart Hall, Room 2A
Email: mcreek@math.uchicago.edu asilata@math.uchicago.edu
Phone: (773) 702-7346 N/A
Office Hours: T 09:00-10:00, R 16:00-17:00, and by appointment T 17:00-18:00, R 09:00-10:00, and by appointment

College Fellow

Name: Anthony Yuming Wang
Office: “Woodlawn Basement” (5720 S Woodlawn Ave), Room 5E
Email: ayw@uchicago.edu
Phone: N/A
Office Hours: M 16:00-17:00, F 16:00-17:00, and by appointment

Course Description

This is the first of three parts of the University of Chicago’s honors sequence in one-variable calculus in the Inquiry-Based Learning (IBL) format. We intend to discuss the natural numbers and mathematical induction, some basic elements of set theory, and some fundamental topological properties of “the continuum” (a particular set which we will study in detail).

The course will be taught using the Moore Method. More information about this can be found here. The role of the instructors will be to facilitate and moderate discussions, as well as to ask leading questions as needed to advance discussions.

You will also have written work to submit. This work should be typeset using the \LaTeX{} program. You can find a brief primer on how to use \LaTeX{} here (source code here). Students should feel free to work together on all written work, provided that each student independently writes up his own solution for submission. Late work will not be accepted under any circumstances. Please do not try to challenge this policy.

Our College Fellow will run a hebdomadal problem-solving clinic for this course. No new material will be presented in this clinic; instead, its purpose is to give a forum for students to ask questions regarding the material covered during normal class time. In addition to this, both instructors for this course will hold two office hours per week. We are always happy to work with students who are putting forth an effort, so please take full advantage of these opportunities for assistance.

Grading

Your grade in this course will be determined by the following criteria in equal measure:

A. Classroom participation
B. Submitted written work (including journals and homework problems)
C. Final Examination (Tuesday, 12/08/2015, 10:30-12:30 + individual oral component)

Departmental Boilerplate

It is the policy of the Department of Mathematics that the following rules apply to final exams in all undergraduate mathematics courses:

1. The final exam must occur at the time and place designated on the College Final Exam Schedule. In particular, no final examinations may be given during the tenth week of the quarter, except in the case of graduating seniors.
2. Instructors are not permitted to excuse students from the scheduled time of the final exam except in the cases of an Incomplete.