MATH 105 TOPICS IN MATHEMATICS

Line # 52920

Spring 2015

- **Your Professor:**   Dr. Yasuyuki Kachi

$\Big($ Associate Professor, Mathematics Department $\Big)$

- **Class Meeting:**   MonWedFri 1:00–1:50pm, at Budig Hall 120

- **Kachi's Course Webpage:**

$$\text{http} : \big// \text{www.math.ku.edu} \big/^{\sim} \text{kachi} \big/ \text{math15s-105} \big/ \text{math15s-105.html}$$

All the course materials will be posted in this site $\big($lecture notes, regular and extra homework sets, administered quizzes, administered exams along with solutions$\big)$. Also, all the important messages from Kachi to students will be posted in the same site. Please visit this site at least three times a week.

- $\Big[$ **Important** $\Big]$

  I urge you to please read carefully the following three separate documents [1] and [2], in addition to the present document :

    [1] " **Rules, policies and protocols – Student responsibility** ",

    [2] " **Background information** ".

- The document [1] addresses the issues which an official KU guideline* recommends all KU instructors to clarify to students, and it moreover provides some pertinent information. Being consistent with the same KU guideline, the document [1] highlights the following:

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*Called **"Keys to Civility"** . Downloadable at

https://documents.ku.edu/policies/Student_Affairs/Civility_Brochure.pdf

- Students' responsibility.

- Policy on late assignments and make-up exams.

- Acceptable conduct during class / social boundaries.

- Guiding values of our classroom.   ○ Mutual respect.

- Proper way of communication (e-mail protocol).

- Classroom interaction.   ○ Feedback / Personalized attention.

- Academic misconduct policy.   ○ Laptop and cell-phone use.

- Difference between 'intellectual satisfaction' and 'instant gratification'.

- Liability for damage of the submitted papers.

- Whether activities not related to course work can be grounds for absence / reduced course work.

- Whether the following areas are subject to negotiation with students: contents and timing of exams and assignments, use of class time, grades.

In addition, [1] also highlights the scope of each of the following:

- Homework Hints.   ○ Computer software.

- On-line Services.   ○ Plagiarism.   ○ Review sessions.

- Private tutors.   ○ Recommendation letters.   ○ Spectators.

- [2] provides information which (most) KU students don't know about, which helps KU students to see why the current academic setting is the right one. It includes:

   - My academic background (my degree).

   - The dual role of KU professors in research and teaching.

   - A math professor's day.

   - How our system in the United States differs from its counterparts overseas.

   - Respectability of academic jobs.

- **Office Hours:** This is a Math 105 <u>**large lecture course**</u>. Being consistent with our (KU Mathematics Department's) standard practice, <u>**I have my TAs, Mr. Oguzhan Batmaz, Mr. Chengzhen Fang and Ms. Smita Praharaj, hold the office hours.**</u>

- **Mr. Oguzhan Batmaz's E-mail:** <u>oguzhan @ku.edu</u>

- **Mr. Chengzhen Fangs E-mail:** <u>c940f322 @ku.edu</u>

- **Ms. Smita Praharaj's E-mail:** <u>s203p203 @ku.edu</u>

- If the scheduled Office Hours are not convenient for you, please email one of them and (s)he might be able to find time to meet outside of those hours. It will be some time Monday–Friday during the regular business hours. There is no guarantee that there is a time that is mutually convenient. Still, please feel free to email them to find out.

- **Textbook:** *None.* List of suggested readings will be provided in due course.

- **Calculator use:** Any of the following types of calculator may be used:

  TI-83, TI-83+, TI-84, TI-84+.

- **Prerequisite:** **Math 101 or Math 104, or 2 years of high school algebra and a score of 26 or more on Enhanced ACT Mathematics, or a qualifying score on the mathematics placement test.**

- **Testing:**

  There will be one (1) written midterm exam, with 50 minutes of duration. Also there will be one (1) written final exam, with 150 minutes of duration. <u>**A portion of each of the two exams is take-home.**</u>

- <u>**The in-class part of the Midterm Exam:**</u> <u>**March 11th (Wed)**</u> (<u>**regular class time**</u>).

- <u>**The in-class part of the Final Exam:**</u> <u>**May 15th (Fri)**</u> (<u>**10 : 30 am — 1 : 00 pm**</u>).

- **Grading scheme:**

  Attendance: 200pts,   **Homework:** 250pts,   **Quizzes:** 300pts,

  Midterm Exam: 100pts,   **Final Exam:** 150pts.

  Thus, 1000 points are available. Your grand total score is calculated out of 1000 points.

- As for make-up exam policy, please see the separate document " **Rules, policies and protocols** " $\big(= [1]$ as cited above$\big)$.

- **Homework:**   Collected on a regular basis. "Hints" will be provided for some assignments. please see the separate document " **Rules, policies and protocols** " $\big(= [1]$ as cited above$\big)$. Also, as for homework drop policy, please see the same document $\big(= [1]$ as cited above$\big)$.

- **Quizzes:**   We will do quizzes on a $\big($semi-$\big)$regular basis. Quizzes contain 'representative' problems, and are an important part of the course. There are

  1. "In-class" quizzes $\big($factored into your grade$\big)$,

  2. "Take-home" quizzes $\big($factored into your grade$\big)$,   and

  3. "Self-grade" quizzes $\big($ <u>not</u> factored into your grade$\big)$.

- Only "in-class" and "take-home" quizzes will be collected, graded, and returned.

- "Self-grade" quizzes will be made available with solutions, thus you

  1. try it $\big($try not to peek at solutions$\big)$,

  2. download "solutions", and

  3. "self-grade" using solutions.

  You will not be asked to turn them in.

- The timing of "in-class" quizzes will be <u>usually</u> announced ahead of time. However, there may be "pop in-class" quizzes. So, it is a good idea to always be alert and make sure to study the materials covered in class without delay.

- **Extra Credit Homework, Extra Credit Problems on Exams:**

  To give students some incentive, Extra Credit homework will be assinged on a (semi-)regular basis. Also some extra credit problems will be included in exams. Any extra credit you may have incurred through these will be prorated by your attendance rate, in the course of determining your final letter grade.

- **Seating, attendance polls:**

  You are asked to always sit in the same seat. You chose your seat on the first day, Wednesday, January 21st. That is going to be your permanent seat for the entire rest of the semester. Seating diagram was circulated during the first day of class, and you were asked to write your name in it. That means we have recorded your seat number, and we will take attendance polls based on your seat number. Until the last day, Wednesday, May 6th, please always sit in your seat. Otherwise we cannot give you an attendance credit. Please also make sure to remember your seat number, not just the location of your seat. Indeed, on every assignment, we require you to put down your seat number. There is a plaque attached to each seat. Please do not try to dupe us by using someone else (a dummy) to sit in your seat. We may ask you to show your KU photo ID, so please keep it handy.

★   **You will be assigned a different seat on the exam days.**

- **Enrollment-related notable dates.**

1. **January 26th (Mon).**

   Last day to add or change sections online and without permission of Mathematics Department.

2. **February 9th (Mon).**

   Last day to drop a course without a W on transcript.

3. **February 16th (Mon).**

   Last day to add or change sections even with written permission. Dr. Marge Bayer (Associate Chair of Mathematics Department) will sign the form. Permission is rarely given.

4. **April 20th (Mon).**

   Last day to withdraw from a course (can be done online).

MATH 105 CALENDAR

The class meetings are on Mondays, Wednesdays and Fridays.

[Week #1] January 21, 23.

[Week #2] January 26, 28, 30.

[Week #3] February 2, 4, 6.

[Week #4] February 9, 11, 13.

[Week #5] February 16, 18, 20.

[Week #6] February 23, 25, 27.

[Week #7] March 2, 4, 6.

[Week #8] March 9, 11, 13.

$\star$ **Midterm Exam: Wednesday, March 11, 1:00pm–1:50pm**

(regular class time)

No class on March 16, 18, 20 (Spring Break)

[Week #9] March 23, 25, 27.

[Week #10] March 30, April 1, 3.

[Week #11] April 6, 8, 10.

[Week #12] April 13, 15, 17.

[Week #13] April 20, 22, 24.

[Week #13] April 27, 29, May 1.

[Week #15] May 4, 6.

No class on May 8 (Stop Day)

$\star$ **Final Exam: Friday, May 15, 10:30am–1:00pm.**