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**SABANCI UNIVERSITY, Spring 2018**
**MATH 101 AB– Calculus I**

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| **Lecturer:** | (Section A) Kağan Kurşungöz |
| **e-mail:** | kursungoz@sabanciuniv.edu |
| **Office:** | FENS 2010 |
| **Office Hours:** | M 4:50 pm – 5:30 pm, |
| | T 3:50 pm – 5:30 pm, |
| | or by appointment. |

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| **Lecturer:** | (Section B) Ayesha Qureshi |
| **e-mail:** | aqureshi@sabanciuniv.edu |
| **Office:** | FENS 1097 |
| **Office Hours:** | M 10:30 am – 12:00 pm, |
| | T 10:30 am – 12:00 pm, |
| | or by appointment. |

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| **Coordinator:** | Matteo Paganin |
| **e-mail:** | paganin@sabanciuniv.edu |
| **Office:** | FENS G 001 D |
| **Office Hours:** | by appointment. |

**Class Hours:** (Section A) M 3:40 pm – 4:30 pm, T 1:40 pm – 3:30 pm (FENS G 077)
(Section B) M 4:40 pm – 5:30 pm, T 3:40 pm – 5:30 pm (FENS G 077)

**Recitation Hours:** F 8:40 am – 10:30 am (A1 – A3, B1 – B2),
F 10:40 am – 12:30 pm (A4 – A5, B3 – B4),
F 1:40 pm – 3:30 pm (A6 – A7, B5 – B6).

**You are responsible from every announcement made in class or in SUCourse. Not attending the class or not following SUCourse regularly is not an excuse, in case you miss something.**

**Textbook:** Calculus 6th Edition, Hughes-Hallett, Gleason, McCallum et al. For online homework students must have a personal account on wileyplus.com. **New students should purchase the textbook together with the access code**. See later.

**Online Homeworks:** In the beginning of the second week of the course, you will receive a mail on your sabanciuniv.edu address with the data of your account on wileyplus.com. You will automatically be registered to the relevant section. You are required to use the code you find on the book you purchased in order to use the service. For those who already possess an account, the existent one will be used. You will not need a new code if you used one already.

The homeworks are posted on each Tuesday evening and are due on Thursday at 23:45. No online homework will be made up.

**Recitations:** Each recitation will consist of the following activities
**Problem solving** on the white board (TA, LA or students)
**Group-study:** Students will discuss and solve problems from a given worksheet in groups.
**Discussion:** Students are urged to ask questions during recitations.
**Quiz questions** will usually be similar to the problems in the online homework or in the group-study worksheets.

**Aim of the Course:** We hope to gain an understanding of:
- Functions and graphs,
- Limits and the derivative, differentiation rules,
- Applications of derivatives such as graph sketching, optimization, relative rates,
- The area problem and the definite integral,
- Computing definite or indefinite integrals,
- Applications of single-variable integrals as time allows.

For the entire course, we will work on single-variable functions.

**Participation:** Attendance in recitations will be checked regularly. Students missing 6 recitations or two of the three exams (two midterms and one final) will automatically get an NA grade. The students who earned the NA grade will not be allowed in the subsequent exams. No excuses will be accepted to miss that much in the course. Health reports for recitations will not be counted, so even if you have a health report, if you're not in the recitation, you'll be considered absent. If you miss 5 recitations for whatever reason, then get sick and have to miss the 6th one, you'll still get NA, so do not use up all of your allowed absences. You are required to attend your registered recitation section; otherwise your attendance grade will be lost. You're responsible for keeping track of your attendance grades on SuCourse. If it is entered incorrectly, you must notify your TA within 1 week to change it. If you have a medical report for an extended period of time (about a month or so), you are required to contact the course coordinator Matteo Paganin.

**Grading:** Your grade exclusively depends on the below listed items. There will be no other extra-credit opportunities.

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| Midterm I | 25 % |
| Midterm II | 25 % |
| Final | 25 % |
| Recitation quiz | 20 % |
| TA grade | 3 % |
| Attendance quiz | 5 % |
| Online homeworks | 7 % |

**Exams:** The midterms will be on the below listed dates and times. More detailed information will be available in the due course.

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| Midterm I | Mar 10 Sat, starts at 10:00 |
| Midterm II | Apr 14 Sat, starts at 10:00 |

The final may be given on any day between May 21 – Jun 01. Student resources will determine the dates&times for all final exams, and instructors cannot change it. So, do not plan to leave İstanbul before Jun 02. We will not accommodate travel arrangements, or other personal business.

**Makeup Policy:** If you miss a midterm or the final and wish to make it up, you must contact the coordinator Matteo Paganin, and explain your excuse as soon as possible. Makeup for either midterm or the final will be at the end of the semester (after the finals period ends). Only students that had contacted the coordinator with a valid excuse will be contacted about the exact time and place. The makeup exam will contain all topics.

**Recitation Grade:** This consists of quiz scores (20 %) and the TA grade (3 %). The best 8 of your quiz scores will determine the quiz grade. Your participation and behavior in class will determine the TA grade (disturbing your classmates, attempting to cheat in quizzes (which may cause other problems), being late, leaving early etc. may hurt your TA grade).

**Quizzes:** The best 8 of your quiz scores will determine the quiz grade. There will be quizzes in almost all recitations (12 or 13 quizzes). Quizzes are not made up for any reason. Suggested problems will be announced on SUCourse.

**Lecture Attendance Check:** There will be attendance checks in the form of pop-up quizzes during lecture times. These quizzes will not be made up, either.

**Extra Help:** Other than your instructor, your TA and the course coordinator, you can get extra help from Academic Support (ADP). ADP's web address is http://adp.sabanciuniv.edu .

**Academic Integrity:** All university policies on academic integrity apply to our course, and they will be enforced. (more information on http://www.sabanciuniv.edu/en/academic-integrity-statement )

In particular, no form of cheating is welcome in the exams or quizzes, such as copying whole or part of each other's answers, using cheat-sheets etc. Such behavior will be punished.

**Suggestions:**

- Feel free to ask your instructors and your TA a question in and out of class.

- Remember that you do not have to be a math genius to be successful in this course (although it wouldn't hurt!). Regular study habits are sufficient to get a decent grade.

- Attend the classes and recitation hours regularly. Make sure you attend your own (registered) recitation section.

- Studying out of class for this course should become a routine. Key to success in mathematics is practice. There will be homework problems assigned at the end of classes. You are not expected to return solutions but you are strongly advised to solve them. Some of the quizzes will be given at the beginning of the recitation hour; so it is important that you prepare ahead of time.

- Scientific WorkPlace / NoteBook (SWP / SNB) is a math software package available at Information Technology website for download. I often use it in my lectures as an important visual aid; you must use it for your self-study.

- You are responsible from every announcement made in class or in SUCourse. Not attending the class or not following SUCourse regularly is not an excuse, in case you miss something.

Below is a tentative breakdown of topics.

| Week | | Topic (Sections from the textbook) |
| --- | --- | --- |
| 1 | Feb 5, 6 | 1.1 – 1.4 |
| 2 | Feb 12, 13 | 1.5 – 1.7 |
| 3 | Feb 19, 20 | 1.8, 2.1 |
| 4 | Feb 26, 27 | 2.2 – 2.5 |
| 5 | Mar 5, 6 | 2.6, 3.1 – 3.2    Midterm I (Mar 10 Sat) |
| 6 | Mar 12, 13 | 3.3 – 3.6 |
| 7 | Mar 19, 20 | 3.7, 3.9 – 3.10 |
| 8 | Mar 26, 27 | 4.1 |
| 9 | Apr 9, 10 | 4.2 – 4.3        Midterm II (Apr 14 Sat) |
| 10 | Apr 16, 17 | 4.6 – 4.7, 5.1, 5.2 |
| 11 | Apr 24 | 5.3, 6.1, 6.2 |
| 12 | Apr 30 | 7.1 |
| 13 | May 7, 8 | 7.2, 7.4 |
| 14 | May 14, 15 | 7.6 – 7.7 |