

# MATH 203 SYLLABUS OF SPRING 2022

**Text: Adams & Essex; Calculus, a Complete Course, 9th Edition**

Week #	Class Days	Sections from book	TOPICS
Week 1	Feb 15 - 19	Sec 10.1, 10.2	3D coordinate system, vectors, dot product, cross product; triple product
Week 2	Feb 22 - 26	Sec 10.3, 10.4	Equations of lines and planes
Week 3	Mar 1 - 5	Sec 11.1, 11.3, 11.4, 10.5	Vector functions and space curves, tangent and normal vectors, Quadratic surfaces
Week 4	Mar 8 - 12	Sec 10.5, 12.1, 12.3	Quadratic functions, several variables, partial derivatives, tangent planes, linear approx.
Week 5	Mar 15 - 19	Sec 12.4, 12.5,	Higher order derivatives, the chain rule
Week 6	Mar 22 - 26	Sec 12.7, 12.8	Gradients and directional derivatives, implicit functions
<b>MIDTERM 1: MARCH 26 FRIDAY AT 17:00 - 18:15 25 % of total</b>			
Week 7	Mar 29 – Apr 2	Sec 13.1	Local extreme values, quadratic approximation
<b>SPRING BREAK Apr 5 - 9</b>			
Week 8	Apr 12 - 16	Sec 13.2, 13.3	Lagrange multipliers, absolute extreme values
Week 9	Apr 19 – 23	Sec 14.1, 14.2	Double integrals, double integrals in polar coordinates
Week 10	Apr 26 – 30	Sec 14.4, 14.5	Cylindrical and spherical integrals
Week 11	May 3 - 7	Sec 14.6, 15.5	Surfaces and surface areas
Week 12	May 10 – 14	Sec 15.1, 15.2, 15.3, Sec 15.4	Vector fields, conservative fields, line integrals
<b>MIDTERM 2: MAY 14 FRIDAY AT 17:00 - 18:15 25 % of total</b>			
Week 13	May 17 - 21	Sec 15.6, 16.1, 16.2, 16.3	Flux integrals gradient, divergence and curl, Green's theorem
Week 14	May 24 - 28	Sec 16.4, 16.5	Divergence theorem, Stokes' theorem, Review and prep for exam
Week 15	May 29 - 30		Leeway

### Instructors

Attila Aşkar, [gaskar@ku.edu.tr](mailto:gaskar@ku.edu.tr), Sec 01 & 02; Varga Kalantarov, [vkalantarov@ku.edu.tr](mailto:vkalantarov@ku.edu.tr), Sec 03 & 04

Assistants to be announced

OFFICE HOURS: There will be possibilities to discuss questions via email. More details in due time.

## Math 203, SPRING 2022 Regulations

**Prerequisite: Passing grade in Math 106.**

### **Evaluation method:**

- Students will be evaluated according to the following scheme:  
Quizzes 10 %; Midterm 1 - 25%; Midterm 2 - 25 % and Final exam - 40%.
- The final exam will be comprehensive covering all the subjects in the course.
- If the final exam grade is significantly high or significantly low, the letter grade will reflect this performance.
- The nature of the FINAL exam will be announced by the university as the health-related regulations become clear.

### **Attendance:**

- Students are strongly advised to attend all the ONLINE lectures and study the solutions of the assigned problems that will be posted each week.
- The ONLINE lectures will be given during the same weekly hours as in the schedule. You may attend any or up to all of the ONLINE lectures.
- The ONLINE lectures will be recorded for your review of the material and study.

### **Policy for makeup exams:**

- ◆ If a student misses a midterm and has a valid medical report or an excuse accepted by the Dean's office, then he/she will have the right to a makeup exam for one missed midterm exam. This makeup exam will be part of the final. In this case, the student will be graded at 65 % by the final.
- ◆ If a student misses two midterms, then he/she will receive zero for the first missed midterm.
- ◆ Under the same conditions as for the midterm, a makeup will be given to those who miss the final exam.
- ◆ If a student misses the final exam makeup, then he/she will get zero for the second missed exam.

### **Academic Honesty:**

- Academic honesty is essential. If a student is caught cheating in an exam, he/she will be punished according to the YÖK regulations. These consist of one or two semesters of prohibition from attending the university.

**THERE MAY BE REVISIONS OF THIS SYLLABUS  
AS TIME PROGRESSES.**