Program Undergraduate	Identification	Subject	MATH 102, Calculus 2 B, 6 ECTS			
Program Undergraduate Term Fall, 2022 Instructor Rza Mustafayev						
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Instructor Rza Mustafayev			<u> </u>			
E-mail: Rzamustafayev@gmail.com Phone: (4994 50) 634 26 16 (4994 50) 634 26 16 (4994 50) 634 26 16 (4994 50) 634 26 16 (4994 50) 634 26 16 (4994 50) 634 26 16 (4994 50) 634 26 16 (4994 50) 634 26 16 (4994 50) 634 26 16 (4994 50) 634 26 16 (4994 50) 634 26 16 (4994 50) 634 26 16 (4994 60) 630 (4994 6			•			
Phone: (+994 50) 634 26 16 Classroom/hours Saturday 17:00-18:30, Saturday 18:40-20:10 Prerequisites MATH 101- Calculus 2B Language English Required Required textbooks and course materials 1. George Thomas, et al., Thomas' Calculus: Early Transcendental, 12th edition, Addison-Wesley (2010), (http://libgen.org/) Supplementary book 2. James Stewart , Essential calculus, Early transcendentals, Second Edition, Brooks/Cole (2013) (http://libgen.org/) Supplementary book 2. James Stewart , Essential calculus, Early transcendentals, Second Edition, Brooks/Cole (2013) (http://libgen.org/) In this subject we develop a method to calculate the areas and volumes of very general shapes. The integral is of fundamental importance in statistics, the sciences, and engineering. Here we will introduce three-dimensional coordinate systems and vectors, also. The course concerns the study of integration methods, definite integrals and their applications to evaluation areas, volumes, are length, areas of surfaces of revolution, vectors, three-dimensional Coordinate Systems, limits and continuity in higher dimensions, partial derivatives. Preparation of definite integrals to area, volume and are length and areas of surfaces of revolution problems.		Instructor	Rza Mustafayev			
Classroom/hours Saturday 17:00-18:30, Saturday 18:40-20:10		E-mail:	Rzamustafayev@gmail.com			
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points introduced in the text. Reading the assigned chapters and having some						
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familiarity with them before class will greatly assist your understanding of the lecture. After the lecture, you should study your notes and work relevant problems and cases from the end of the chapter and sample exam questions. Throughout the semester we will also have a large number of review sessions. These review sessions will take place during the regularly scheduled class periods.

Attendance

Students who do not attend more than 30% of online classes will not be allowed to take the exam.

Withdrawal (pass/fail)

This course strictly follows grading policy of the School of Science and Engineering. Thus, a student is normally expected to achieve a mark of at least 60% to pass. In case of failure, he/she will be required to repeat the course the following term or year.

Cheating/plagiarism

Cheating or other plagiarism during the Quizzes, Mid-term and Final Examinations will lead to paper cancellation. In this case, the student will automatically get zero (0), without any considerations.

Professional behavior guidelines

The students shall behave in the way to create favorable academic and professional environment during the class hours. Unauthorized discussions and unethical behavior are strictly prohibited.

Participation

Every two non-participations of a student removes 1% out of his/her total percentage.

Ethics

Students should not arrive in late to class.

All cell phones must be turned off and stowed away before entering class. Use of any electronic devices is not allowed in the classroom and violators will be punished accordingly.

		Tentative Schedule	
We	Date/Day (tentative)	Topics	Textbook/ Assignments
1	17.09.22 17.09.22	 Volumes Using Cross-Sections Volumes Using Cylindrical Shells 	Ch. 6.1, 6.2 / not assigned
2	24.09.22 24.09.22	Arc LengthPractice	Ch. 6.3 / not assigned
3	01.10.22 01.10.22	 Areas of Surfaces of Revolution Work and Fluid Forces 	Ch. 6.4, 6.5/ not assigned
4	08.10.22 08.10.22	 Moments and Centers of Mass The Logarithm Defined as an Integral 	Ch. 6.6, 7.1 / not assigned
5	15.10.22 15.10.22	 Exponential Change and Separable Differential Equations Hyperbolic Functions 	Ch. 7.2, 7.3/ not assigned
6	22.10.22 22.10.22	Relative Rates of GrowthIntegration by Parts	Ch. 7.4,8.1/ not assigned Quiz (10 pts)
7	29.10.22 29.10.22	Trigonometric IntegralsMidterm Exam	Ch. 8.2 / not assigned
8	31.10.22	Trigonometric Substitutions	Ch. 8.3,8.4 / not

	31.10.22	Integration of Rational Functions by Partial Fractions	assigned
9	05.11.22 05.11.22	 Vectors Three-Dimensional Coordinate Systems	Ch.12.1, 12.2, / not assigned
10	12.11.22 12.11.22	The Dot ProductThe Cross Product	Ch.12.3, 12.4/ not assigned
11	19.11.22 19.11.22	Functions of Several Variables	Ch. 14.1/ not assigned
12	26.11.22 26.11.22	Limits and Continuity in Higher Dimensions, Partial Derivatives	Ch. 14.1/ not assigned
13	03.12.22 03.12.22	The Chain Rule Directional Derivatives and Gradient Vectors	Ch. 14.4,14.5/ not assigned Quiz (10 pts)
14	10.12.22 10.12.22	 Tangent Planes and Differentials Extreme Values and Saddle Points 	Ch. 14.6,14.7, 14.9 /not assigned
15	17.12.22 17.12.22	Taylor's Formula for Two Variables	Ch. 14.9 /not assigned
	TBA	Final Exam	

This syllabus is a guide for the course and any modifications to it will be announced in advance.