

MATH 155 – Calculus for Engineering I

Department of Mathematics and Computer Sciences

Methods of Instruction	Theor.	Appl.	Lab.	Intern.	Project/Field Work	Other	Total	Credit	ECTS Credit
	42	28	-	-	-	-	70	(3 2 4)	6
Semester	Summer 2008								
Instructor	Sezgin Sezer (A-Block, 107/A, Phone: +90 312 2844500 Ext: 307) e-mail: sezgin@cankaya.edu.tr Home Page: http://ari.cankaya.edu.tr/~sezgin								
Schedule	Monday 13:40 – 15:30 Anfi II, Tuesday 09:40 – 11:30 Anfi II, Wednesday 13:40 – 15:30 Anfi II, Thursday 09:40 – 11:30 Anfi II, Friday 09:40 – 11:30 (recitation)								
Office Hours	Monday 12:40 – 13:30, Thursday: 12:40 – 13:30								
Prerequisite	None								
Catalog Description	Functions and graphs; limit and continuity; derivatives; chain rule; implicit differentiation; extreme values, integration; substitution; numerical integration; volumes and lengths; logarithms and exponentials; inverse trigonometric functions; integration by parts; partial fractions; trigonometric substitutions; improper integrals; sequences and series; alternating series, power series, Taylor and Maclaurin series.								
Textbook	Thomas' Calculus, Addison Wesley, 11 th International Edition.								
Reference Books	Calculus Complete Course by Robert A. Adams Publisher: Addison – Wesley 2006.								
Evaluation Criteria					Number of		Percentages		
	Midterm Exams				2		30 + 30		
	Quiz				-		-		
	Homework				-		-		
	Project				-				
	Term Homework				-				
	Laboratory Work				-				
	Class Participation				5		-		
	Final Exam				1		40		

Exam Dates	First Midterm Exam: 14 July 2008
	Second Midterm Exam: 04 August 2008

Course Description Details		
Week	Dates	Topics covered
1	18. 06 – 24. 06	Preliminaries (1.1 – 1.6) Limits and Continuity (2.1 – 2.6)
2	25. 06 – 01. 07	Differentiation (3.1 – 3.6, 3.8) Applications of Derivatives (4.1 – 4.6)
3	02. 07 – 08. 07	Integration (5.1 – 5.6) Applications of Definite Integrals (6.1 – 6.3)
4	09. 07 – 10. 07	Transcendental Functions (7.1 - 7.3, 7.4, 7.7 – 7.8)
5	16. 07 – 17. 07	Techniques of Integration (8.3 – 8.4)
6	23. 07 – 24. 07	Techniques of Integration (8.3 – 8.4)
7	30. 07 – 05. 08	Improper Integrals (8.6)