

MATH 240-02 – DIFFERENTIAL EQUATIONS

Semester: Spring 2000

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Exams & Grading: • **Midterms** (25% each)

1st Midterm

March 24, 2000 @ 1:40 pm

2nd Midterm

April 28, 2000 @ 1:40 pm

• **Final Exam** (40%)

TBA

• **Quizzes** (10%)

Weekly

Sample Exams

are available from <http://www.fen.bilkent.edu.tr/~degt>

Course Schedule: Tuesday 8:40–9:30 am

Friday 1:40–3:30 pm

Office Hours: Tuesday 9:40–10:30 am

Friday 9:40–10:30 am

Textbook: Rainville, Bedient & Bedient, *Elementary Differential Equations*, 8th Edition (Prentice-Hall Inc., Simon & Schuster)

Supplementary: Boyce & DiPrima, *Elementary Differential Equations and Boundary Value Problems* (Wiley, New York, 1992),
Ross, *Differential Equations* (Wiley, New York, 1986)

	Week	Subject	MT
#1	Feb.7-11	Introduction to Differential Equations	
#2	Feb.14-18	First Order O.D.E. Separation of Variables	
#3	Feb.21-25	Integrating Factors. Homogeneous Equations	
#4	Feb.28-Mar.3	Applications of First Order O.D.E.	
#5	Mar.6-10	Linear Dependence. Wronskian	
#6	Mar.13-15	Reduction of Order	
#7	Mar.20-24	Method of Undetermined Coefficients	1
#8	Mar.27-31	Variation of Parameters	
#9	Apr.3-7	Applications of Second Order O.D.E.	
#10	Apr.10-14	Inverse Differential Operators	
#11	Apr.17-21	Singularities of Differential Equations	
#12	Apr.24-28	Series Solutions	2
#13	May 1-5	Series Solutions	
#14	May 8-12	The Laplace Transform	
#15	May 15-18	The Laplace Transform	