

Department of Mathematics
Christopher Newport University

Math 240

**Intermediate Calculus
with Maple**

Fall Term 2006

Instructor: Dr. Khalili
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$$\frac{d}{dx} \int_0^{x^2} e^{-t^2} dt = 2x e^{-x^4}$$
$$\sum_{i=1}^n i^3 = \left(\frac{n(n+1)}{2}\right)^2$$

Office: Gosnold 121= 11²
Office Hours: MW 3:00 - 4:00 pm, TTH 1:00-3:30 pm,
Classroom: Gosnold 204
Class Hours: TTH 11:00-12:45 pm
Phone: 594-7037(office), 594-7194 (department secretary)

Textbook: *Calculus*, Stewart 5th ed.

Course Objective: Math 240 is the second semester of our calculus series, Math 140, Math 240, Math 250. Students coming to this course should have completed Math 140 or equivalent recently. One must know at least basic differentiation and integration rules from Math 140. Math 240 by far is more challenging than the other two calculus courses, Math 140 and Math 250. As such you should spend at least two hours for each our of class time. Key to success in this course is to come to class prepared and with questions ready for class discussion. At least half of each class period will be spent on problems discussion and problem solving.

This course is intended to achieve the following objectives

1. Gaining factual knowledge (terminology, classifications, methods, trends)
2. Learning fundamental principles, generalizations, or theories
3. Learning to apply course material (to improve thinking, problem solving, and decisions)

Course Outline:

<u>Chapter</u>	<u>Section</u>
5	4,5 (These are review sections)
7	2,3,4,5,7 (7.2 is a review section)
8	1,2,3,4,7,8
12	1,2,3,4,5,6,7,8,9,10,11,12

Grading System: The course grade is based on three tests each of which is 20% of the course grade, weekly homework that accounts for 10% ,**Maple projects that accounts for 10% of the course grade**, and a final exam (Cumulative) which accounts for 20% of the course grade. The tests will be given approximately once a month . Final exam is scheduled for Tuesday December 5 from 11-1:30 pm.

Homework: Homework will be assigned daily and covered in class the next day.

Free Tutor: Mathematics department may offer free tutorial lab for this course. The lab is located in G-114.

Grading Scale: The course grade is assigned based on the following scale:

91 - 100 = A	75 - 78 = C ⁺	58 - 60 = D ⁻
88 - 90 = A ⁻	70 - 74 = C	00 - 57 = F
85 - 87 = B ⁺	67 - 69 = C ⁻	
81 - 84 = B	64 - 66 = D ⁺	
79 - 80 = B ⁻	61 - 63 = D	

Attendance: Attendance is necessary, and you are responsible for all class materials, assignments and deadlines.

Withdrawal Policy: The withdrawal policy is the same as an official university policy. *Therefore the last day to withdraw or elect Pass/Fail is October 25, 2006.*

University Regulations on Students with Disabilities:

If you believe that you have a disability, you should make an appointment to see me to discuss your needs. In order to receive an accommodation, your disability must be on record in Disability Services located in the Academic Advising Center, Student Union, Room 3125 (Telephone - 594-8763; Fax - 594-8765).

**Math 240 List of Homework
Calculus, James Stewart**

<u>Pages</u>	<u>Problems</u>
356 - 357	1,2,5,9,11,13,17,19,23,25,31,35,39,43,53.
365 - 366	1-31 odd,37,41,43,45,49.
458 - 459	1,5,9,11,13,15,23,27,41,55,59,61,63.
465 - 466	3,5,7,9,13,17,19,27,31,37,69,71,73,75.
475 - 476	3,5,7,9,11,17,23,29,31.
483 - 485	1-9 odd,13,23,29,59,61,63.
501 - 502	5,9,13,15,21,25,33,39,45,51,53.
516 - 517	1-29 odd.
524 - 525	1,3,7,9,15,23,27,29,31,41,55.
530 - 531	1-25 odd.
540 - 541	1,3,9,15,19,21,25,31,33,41,57.
564 - 565	1,3,5,7,13,17,19,29,31.
573 - 574	1,5-37 odd,49,51,57 .
746 - 748	1 - 37 odd,55,57,59,61.
756 - 757	1 - 31 odd,35,41,57.
765 - 766	3 - 21 odd,25.
770 - 771	3 - 27 odd.
775 - 776	3 - 29 odd.
781 - 782	3 - 25 odd.
784 - 784	1,3,7,11,13,19,23,27,29,35.
789 - 790	3-25 odd.
795 - 796	3,7,9,13,19,23,27.
806 - 807	1,3,5,7,11,13,43,45.
811 - 812	1,7,9,13.
819 - 820	3,5,7,13,21,27.