Math 122: CalculusII (CRN 19099)

Fall 2008

Instructor: Rachel Dunwell

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Office Hours: MWF 1pm – 2pm and 3pm – 5pm, by appointment or just call in.
Textbook: _Calculus_, _Early Transcendental Functions._ Larson, Hostetler, Edwards. 4th Edition, Houghton Mifflin

Course Description: Calculus provides powerful tools for modeling real world problems. Students will have a deep understanding of the materials, not only computations. Many proofs will be discussed in class that will give students some ideas about how the system of calculus is built up. We will stress concepts and theorems. It is very important that the student spend time carefully reading the text, with special attention being paid to the definitions and theorems.

The course material is taken from chapters 5, 6, 7, 8 and 9 of the text. It starts with the definition of a Riemann integral, goes on to show the student how to use many techniques of integration that exist, including how to use computer algebra systems. Applications of integration are also studied including how to solve first order differential equations, how to calculate volumes, surface areas and arc lengths. Infinite series are studied in detail and the students will learn how to represent many functions as a power series, and develop an appreciation of when this is and is not possible.

Homework: Will be assigned after every lecture that contains new content (generally every MWF) all three assignments and any additional credit assignments will be due at 5pm on the following Wednesday.

Tests: will be 50 minutes long and consist of problems similar to the problems assigned since the previous test (or, in the case of the first test, the beginning of the course). The test dates are September 23rd, October 14th, and November 25th.

Report: The lectures from October 28th to November 3rd inclusively, will be devoted to an extended self study project. The report of this work will be due at 5pm Wednesday November 5th.

Final Exam: Will be cumulative, and is on Friday December 12th at 5:30pm.

Attendance: The College's attendance policy will be followed. Absence from any lecture, in addition, for any reason, will be loose you the attendance credit for that

lecture. Additional credit assignments, however, will assigned every week which will have the same credit value as attendance at one lecture.

Grades: The grade breakdown is as follows

Homework: 34%;

Self Study Report: 10%;

Tests: 21% (7 each);

Attendance: 10%

Final exam: 25%;

Total: 100%.

The grade scale:

<60	60-62	63-66	67-69	70-72	73-76	77-79	80-82	83-86	87-89	90-92	93-100
F	D-	D	D+	C-	C	C+	B-	B	B+	A-	A

Tutoring: Peer Tutors are on duty every evening from 7pm to 9pm. The full schedule is:

Math 121 Calculus I and Math 122 Calculus II				
Day	**Sunday**	**Monday**	**Tuesday**	**Wednesday**	**Thursday**
Time	7pm – 9pm	7pm – 9pm	7pm – 9pm	7pm – 9pm	7pm – 9pm
Tutor	Josh Fuchs	Bradford Taylor	John Schulte	Whitney DuVal	Josh Fuchs
Tutor's Email	fucjt@rhodes.edu	taybp@rhodes.edu	schjm@rhodes.edu	duwwr@rhodes.edu	fucjt@rhodes.edu
Location	MSC	MSC	MSC	MSC	MSC

Honor Code: The student is expected to conduct him or herself within the guidelines of the College's Honor Code.