

Calculus II: MA132

Syllabus Spring 2007

Instructors:

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Text: Calculus Early Transcendentals by James Stewart and student's solution manual

Course Description and Objectives:

The course will cover techniques of integration and applications of integration, such as area, volume, arc length, work, and first order differential equations. The course also covers sequences and series, including various convergence tests, and Taylor series. The course meets three times per week in lecture with your professor and once a week in recitation with your teaching assistant (TA). Recitation meetings are designed to discuss questions about the homework, to review material from the lecture, and to conduct quizzes. The *prerequisite* for this course is Math 131 or equivalent.

Grading Policy:

Your grade will be computed as follows:

15% Projects (There will be 3 projects (5% each) given this semester)

10 % Quizzes (Given in recitation—based on problems from the text)

10 % Homework

5 % Attendance, class participation, attitude, and willingness to learn new things.

45% Hourly exams (3 exams worth 15% each – See Note 1 below)

15% Final Exam (See Note 1 below)

- **Note 1:** If the FINAL EXAM grade is higher than all other exams, it will be worth 20%, and the lowest score from the other three will be reduced to 10% weighting.
- Letter grades will be determined on the following scale: A(90-100), B+(85-89), B(80-84), C+(75-79), C(70-74), D+(65-69), D(60-64), F(0-59). In order to pass this course with a grade of C or better, you must pass a “Calculus ABC” test with a score of 90% or better.
- No calculators, books, or notes are permitted during exams but the projects will involve a technology component— typically using either EXCEL or MAPLE .
- You need to notify the instructor in advance of any missed exams so that alternative arrangements can be made.

Calculus ABCs: To pass this course with a grade of C or better, the student is required to pass a basic competency test with a score of at least 90%.

Location and times TBA

Wednesday, January 17th

Wednesday, January 24th

Tuesday, January 30th

Wednesday, February 21st

Wednesday, March 28th

You get one last chance on the day of the final.

Students who received grades of D+ or D in Ma 131 and are attempting Ma 132 this semester are required to attend Ma 042 concurrently. There are four sections of Ma 042 which meet respectively on Mondays, Tuesdays, Wednesdays and Thursdays from 4-5:15 p.m. **Students who have not passed the ABC test by the third try are strongly encouraged to enroll in MA042.**

Homework: Suggested homework will be posted on the course webpage—it is your responsibility to do these problems. The recitation quizzes will be closely related to the homework from the text, although that homework itself will not be graded—basically, you need to do it to pass.

(1) A portion of those homework problems will be graded using **WEBASSIGN**.

(2) Approximately once per week, your instructor will require you to submit **SOLUTIONS** to some selected problems of interest. A **SOLUTION** is not simply the answer, it is a complete explanation that clearly shows how the answer is determined. These submissions will be graded based on the quality of the **SOLUTION**, not the correctness of the answer. These grades, along with the grades from **WEBASSIGN**, will determine your overall score for **HOMEWORK** in this course.

Projects: Projects are designed to test your ability to tackle something more complex than a standard homework. Projects will be more involved than typical homework problems. A successful project will require you to use deeper problem solving approaches, combine knowledge from multiple sections of the course, and will emphasize effective communication and technical writing.

Exams : all exams are **IN CLASS**. You are allowed 50 minutes.

Do not be late!

Exam 1 Feb 16 (Friday)

Exam 2 Mar 14 (Wednesday)

Exam 3 Apr 20 (Friday)

Important: Sections 11.8—11.12 will likely be covered in the last **TWO** weeks. Any material not covered by Exam 3 will be emphasized on the **FINAL** exam.

Academic Integrity:

"The Clarkson student will not present, as his or her own, the work of another, or any work that has not been honestly performed, will not take any examination by improper means, and will not aid and abet another in any dishonesty." (Clarkson Regulations) You are welcome, and encouraged, to work with other students on the homework. However, you must hand in your own work, and it must represent your own understanding of the assignment.