BERGEN COMMUNITY COLLEGE
DIVISION OF MATHEMATICS, SCIENCE AND TECHNOLOGY
DEPARTMENT OF MATHEMATICS

COURSE SYLLABUS

MAT-092 CALCULUS I SUPPORT

COURSE DESCRIPTION: Calculus I Support is a recitation class designed to provide additional instructional time for students enrolled in or repeating MAT-280.

CREDITS/HOURS: 1 credit (non-degree), 1 hour

PREREQUISITE: A grade of C or better in MAT-180 Precalculus or by proficiency examination.

COREQUISITE: MAT-280

STUDENT LEARNING OBJECTIVES: **Upon successful completion of this course, students will be able to:**
1. Evaluate and interpret limits;
2. Recognize and interpret continuous functions;
3. Demonstrate the ability to analyze and solve problems involving rates of change by applying the derivative;
4. Solve related rate and optimization problems using calculus techniques;
5. Sketch curves using the techniques of calculus;
6. Evaluate definite and indefinite integrals using basic formulas and the substitution method;
7. Find the area between two curves;
8. Use differentials in the solution of applied problems.

ASSESSMENT MEASURES:

Each student is required to keep a class-folder for this course. The class-folder should contain:
- This course outline;
- Class-folder due dates sheet;
- Hand-outs from this class;
- Graded assignments, quizzes, tests;
- Your weekly journal entry;
- Your weekly assignment.

You are required to hand in this class-folder each week, <u>at least twenty-four hours prior to the class meeting time</u>.

Record of Grades: When an assignment, quiz, or test is returned to you by your MAT-280 instructor, record your grade on this item on the class-folder due dates sheet. When you complete corrections to the graded item, attach the corrections to the graded item and place these papers in your class-folder.

Weekly Journal Entry: Each student is to keep a weekly journal. Your weekly journal entry must include:
- A brief description of the material covered in your MAT-280 class during the past week.
- A brief description of those topics where you are having difficulties, with an example of the type of problem that causes difficulties, specifically indicating the point at which the difficulty arises.

COURSE GRADE: Students should refer to the instructor's grading and attendance policy which will be distributed during the first meeting of the class.

TEXTBOOK: **Calculus, Early Transcendentals Functions**, **with CalcChat® and CalcView®**, 7th Edition, Larson/Edwards, Cengage Learning Publisher.

EXTRA HELP:

The Cerullo Learning Assistance Center in L-125, provides one-on-one and small group tutoring assistance. A schedule of the Center's activities is posted on the bulletin board outside the Center. The office may be reached by telephone: 201-447-7489.

The Math and Science Walk-In in L-131, is for students to work on assignments or study for exams. Tutors and/or faculty may be available for assistance.

The Online Tutoring is provided by Smarthinking. Applications for this service are available in the Cerullo Learning Assistance Center Homepage or L-125.

ELECTRONIC DEVICES: **The Department of Mathematics prohibits the use of cell-phones, PDA's, laptops, headphones, IPODs and other such devices in mathematics classes unless otherwise specified in the grading policy provided by the instructor at the beginning of the semester.**

FACULTY ABSENCE PROCEDURE: CLASS CANCELLATIONS may be found at http://www.bergen.edu/classcancellations A list is also posted in a glass case near A-129, the main corridor on the first floor and in Ender Hall. If a cancelled class is not listed, it should be reported to the Department Office (A-327) or the Adjunct Office (C-107).

WEBSITE: Go to http://www.bergen.edu/academics/academic-divisions-departments/mathematics for more information regarding the Mathematics Department.

STUDENT SUPPORT SERVICES:			
	Learning Assistance Center	Room: L-125	879-7489
	Math and Science Walk-In	Room: L-131	879-7489
	Office of Specialized Services	Room: L-115	612-5269