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:
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, at least twenty-four hours prior to the class meeting time.
**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*, 6th 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 by clicking on the bottom of the Bergen Community College website, [www.bergen.edu](http://www.bergen.edu). A list is also posted in a glass case near A-129, the main corridor on the first floor and in Ender Hall. Students may consult these listings before going to class. If a cancelled class is not listed, it should be reported to the Department Office (A-325) or the Adjunct Office (C-107).

**WEBSITE:** Go to [bergen.edu/academics/academic-divisions-departments/mathematics](http://bergen.edu/academics/academic-divisions-departments/mathematics) for more Information regarding the Mathematics Department.