Course Syllabus for dual enrollment
Mathematics 170
Calculus I
5 credits

Instructor: Lynn Payne
Declo High School Phone 654-2030
Office Hours 8:00 AM – 3:00 PM
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Course Description:
• Course description: This is the first course in the calculus sequence. It covers algebraic and transcendental functions, rate of change, limits, continuity, differentiation of algebraic, trig, exponential, logarithmic and hyperbolic functions, differentials, applications of differentiation, definite and indefinite integrals, area between curves, volumes and other applications of integration, indeterminate forms and L’Hopital’s Rule, Prerequisite: MATH 147 or its equivalent with a grade of “C” or better, or permission of the instructor.

Sections to cover in textbook, Calculus, Early Transcendentals, fifth edition, by James Stewart

• Pre-requisites:
  Math 143, Math 144 or Math 147 with a C or better or placement by Compass Test

• Required Textbooks and Supplies:
  2. Scientific calculator
  3. Notebook and pencils

• Expected Outcomes:
  1. Understanding the Calculus terminology
  2. Apply this terminology in simple and complex patterns
  3. Comprehend Calculus methods used to analyze problems
  4. Apply these method to selected “real world” applications

• Course Objective:
The student will learn the material listed in this syllabus by taking a problem solving approach that will emphasize that one learns mathematics by doing mathematics while thinking mathematically. The student will work through problems using pencil and paper while focusing on definitions, theorems, relationships and procedures that link all steps to the solution. Calculators and computers will be used a tools to expedite the learning process.

• As part of departmental analysis of outcomes in this course and its place in the Mathematics program student completion of the pre-requisite, success in the current course, success in subsequent courses and student satisfaction will be reviewed by the instructor. A report containing this information will be submitted by department faculty to determine what, if any, changes can be made to improve the course in terms of content, focus, and instruction.
• **Policies and Procedures:**
  1. Attendance is essential for a student to be successful in this course. CSI and District 151 attendance policy will be enforced.
  2. You are assigned to do every odd problem for your assignment. Please do them for your benefit. It will reflect directly will your grade on your test.
  3. Class time will be B-day 12:00 – 1:30 PM
  4. Late material will not be excepted unless arraignments are made.
  5. Anyone found cheating on a test will receive a Zero for that test.

• **Grading Practices:**
  1. All tests will be administrated in class time.
  2. Your grade will be an average of your test grades. You will be able to drop your lowest test grade. The final exam is not one of the test that can be dropped.
  3. Your break down of grades will go as follows:
     - 90% - 100% A
     - 80% - 89 % B
     - 70% - 79% C
     - 60% - 69% D
     - 0% - 59% F

• **Aids available to you for this course:**
  1. Student solution book will be available at any time during school hours.
  2. Individual help from instruction by appointment.
  3. Study Groups

• **Disabilities:**
  Any student with a documented disability may be eligible for related accommodations. To determine eligibility and secure services, students should contact the coordinator of Disability Services at their first opportunity after registration for a class. Student Disability Services is located on the second floor of the Taylor Building on the Twin Falls Campus. 208 – 732 – 9929 (TTY), or E-mail aflannery@csi.edu

• **Coverage:**
  - Chapter 1: 1.1 - 1.6
  - Chapter 2: 2.1 - 2.9
  - Chapter 3: 3.1 - 3.11
  - Chapter 4: 4.1 - 4.10
  - Chapter 5: 5.1 - 5.6
  - Chapter 6: 6.1 - 6.5

  Optional sections: Appendix A, B, C and D as needed

• **List of Topics:**
  1. Limits and their applications
  2. The derivative and its applications
  3. Antiderivatives
  4. The definite integral and its application
  5. Logarithmic and Exponential functions and their applications
  6. L’Hopital’s Rule