

# CALCULUS HONORS – 14880400

## COURSE EXPECTATIONS JOHN TURNER

### COURSE SCOPE:

This one-year course is part of a two-year program intended for students who to attain Calculus I and II college credit. Students should have a strong background in advanced algebra, geometry, and trigonometry. This course includes a brief exploration of pre-calculus topics, a study of limits, and the differentiation of functions of a single variable. Emphasis will be placed on the application of technology and theory to solve problems. This course will fulfill one unit of the mathematics credits required for graduation.

### COURSE GOALS:

1. Students should be able to work with functions represented in a variety of ways: graphical (both rectangular and polar), numerical, analytical, or verbal. They should understand the connections among these representations. The emphasis will be with polynomial, rational, trigonometric, inverse trigonometric, and logarithmic functions.
2. Students should understand the meaning of the derivative in terms of a rate of change and local linear approximation and should be able to use derivatives to solve a variety of problems.
3. Students should understand the definition and theorems of the derivative.
4. Students should be able to communicate mathematics both orally and in well-written sentences and should be able to explain solutions to problems.
5. Students should be able to model a written description of a physical situation with a function.
6. Students should be able to use technology to help solve problems, experiment, interpret results, and verify conclusions.
7. Students should be able to determine the reasonableness of solutions, including sign, size, relative accuracy, and units of measurement.
8. Students should develop an appreciation of calculus as a coherent body of knowledge and as a human accomplishment.

### COURSE OUTLINE:

First quarter:	Pre-calculus Ch. 1 - 6
Second quarter:	Pre-calculus Ch. 7 – 9, 11, semester exam review, semester exam
Third quarter:	Calculus Ch. P - 2
Fourth quarter:	Calculus Ch. 3 - 5, semester exam review, semester exam

### TEXT:

Advanced Mathematical Concepts by Gordon, Yunker, Vannatta, and Crosswhite  
Calculus with Analytical Geometry by Larson, Hostetler, and Edwards

### REQUIRED MATERIALS:

Everyday you will be required to bring to class your assigned textbook, your notebook, your assignments, your Cougar Planner, your calculator (TI-89), and a writing utensil (preferable a pencil).

## **CLASSROOM POLICY:**

It is your responsibility to keep and understand the information contained in this policy. It should be read carefully by you and retained for future reference. If you have any questions, be sure to have them clarified by myself immediately. The classroom rules listed are there so that the classroom will be a pleasant place to learn mathematics.

1. Students are to be in class on time. Students are expected to be in the classroom before the bell stops ringing. If late from another class or the office, bring an appropriate pass.
  1. First tardy – warning
  2. Second tardy – 15 huxlies or 20 minutes detention
  3. Third tardy – a tardy letter is sent home
  4. Fourth tardy – a phone call is made to the parents or guardians
  5. Fifth tardy – a student tardy referral
  6. Sixth or more tardy – the student is referred to the deans' office
2. Students are to be prepared for class each day.
3. Tests and quizzes should be done in pencil to be more efficient. Neatness and correct spelling are appreciated.
4. No talking or disruption during the instructor's lectures. Raise you hand to ask or answer questions.
5. No talking during a quiz or test. Talking will be interpreted as cheating in this situation, and the student risks a zero on the paper.
6. No food or drink in the classroom. The exception is water (not flavored) in a water (not sport) bottle. If you bring in candy, food, or other types of drinks, you will be required to throw it away.
7. Seats will be assigned and the students are to remain seated in their assigned seats, unless otherwise directed.
8. All rules of Coronado High School apply in this classroom, including the dress code. Do not take cell phones out in class. Make sure they are turned off before entering the building.
9. It is the responsibility of the student to talk to the teacher concerning make-up work or make-up tests. Make-up tests will be arranged at the teacher's discretion. Concerning homework, for each day absent, the student will be given three days to make up the work.
10. Assignments are given almost every day, including on some Fridays. If time in class is given to work on your assignment, the students are to use it for math work, not that from another class. **EXTRA HELP WILL BE AVAILABLE BEFORE AND AFTER SCHOOL.**
11. Students are allowed two hall passes per nine weeks, and then given at the teacher's discretion. Learning takes place in the classroom, not in the halls. If there is a medical reason, bring a note from a parent or guardian.
12. When the class bell starts class time, be prepared to start. Have you assignments ready to check, your book open, your notes out and opened to the appropriate place, etc. Make use of all class time – don't close shop too early. Get your work done in class, even if it means working up to the bell.
13. No use of obscene or improper language.

14. It is expected that all persons in this class will be polite and courteous. You should treat all others with respect and fairness. This also applies to property that belongs to the school or to others.

**GRADING:**

Grading is done on the point system. Excessive absences make it difficult to attain points. If the absence count exceeds ten unexcused for the semester, it will be a signal that the student will fail the class for that semester. Chapter tests count for 100 points each. Quizzes, including notebook quizzes, count for 20 points each, and homework assignments (weekly) count a point a problem. Homework will account for 25 % of the quarter grade. Quizzes will account for 25 % of the quarter grade. Tests will account for 50 % of the quarter grade. The grading scale is based on percentages – the number of points attained / the number of points possible X 100%. Letter grades are based on the following scale:

90% - 100%	A
80% - 89%	B
70% - 79%	C
60% - 69%	D
under 60%	F

Semester grades will be determined on 40% for each quarter's points and 20% for the semester exam. Citizenship grades are given quarterly and are subjective. This grade is based on my evaluation of you as a cooperative, contributing member of this class. Things considered are attitude, attention, courtesy, behavior, and honesty.

Dear Parents / Guardians,

In order to help insure your child and all the students in the classroom the type of learning climate they deserve, I am using the classroom policy that is posted on my website. Please take some time to review through it. The website address is <http://coronadocougars.net/turner/index.htm> .

I feel that all my students can behave appropriately in my classroom. I cannot tolerate any student stopping me from teaching and / or any student from learning.

It is in your child's best interest that we work together in regards to his / her schooling. Please sign and have your child bring this to me, so that I know that you have had the opportunity to read the policies. I hope to see you at Open House. If you have any questions or comments at any time, please call me at 799-6800.

Sincerely,

John Turner



I have read and understand the course expectations for Calculus Honors. I accept responsibility for the information they contain.

Student Name \_\_\_\_\_

Student Signature \_\_\_\_\_ Date \_\_\_\_\_

Parent/Guardian Name \_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_ Date \_\_\_\_\_