

# TPHS Calculus II (C) ❖ SDSU Math 151

Ms. Abby Brown – Torrey Pines High School

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**Course Description (from SDSU catalog)** *Math 151. Calculus II. 4 units. (CAN Math 20)* Prerequisite: Math 150 with minimum grade of C. Techniques and applications of integration. Improper integrals. Differential equations. Infinite series. Conic sections. Curves in parametric form, polar coordinates.

Note that SDUHSD students may meet the prerequisite by passing the Advanced Placement Calculus AB Exam with a score of 3 or higher.

## Important General Information

There is a semester course fee of \$368 for SDSU credit. This is a reduced fee from recent years and now calculated at \$92 per unit. Beginning in the 2017-18 school year, students have the option to enroll through MiraCosta College for community college credits at no cost (MCC Math 155 Calculus and Analytic Geometry II). All students must enroll through either SDSU or MiraCosta. High school credits are optional. Details about payment and course credits will be explained in class. Registration is due in the early weeks of the semester.

Since 2001 many students have successfully transferred the SDSU credits earned at TPHS to their colleges and universities. However, the ultimate decision on transferability of credits from either SDSU or MiraCosta will depend on the policies of the college or university the student attends after high school.

Students enrolled through MiraCosta may have a few additional lessons, assignments, and/or assessments to fulfill the requirements of MiraCosta College. More details to come as they are determined.

## Bring EACH DAY

- Pencil, Paper, Course Notes, Notebook (Recommended sections: Homework & Quizzes, Notes, Other)
- Book: *Calculus: Early Transcendentals* by James Stewart, Sixth Edition
- Recommended: *Mathematica* on personal computer (days needed will be noted in class)

## Guidelines and Expectations

- Respect
  - Each other (paying attention, letting everyone participate, etc.)
  - Environment (classroom, materials, furniture, ***no food or drinks***, etc.)
  - Honesty: **The TPHS Academic Honesty Policy will be carefully followed and strictly enforced.** Note that students also agree to the Academic Honesty Policies of SDSU or MiraCosta when registering for credits through either institution. Those policies may be found on their websites.
  - Students should NOT take pictures or record video in class, whether during instruction, breaks, or other free time. Ms. Brown's policy statement on taking pictures is posted on the class website.
- Effort
  - Ask questions, have a positive attitude, be willing to try new things.
  - You must turn in work on time to receive full credit.
  - Work neatly and thoroughly.
  - Your work during class time must be for this class. **No phones unless directly related to this class.**
- Evaluation
  - Question the quality of your own work.
  - Is this work you would expect of a college student?
  - Let me, the teacher, know when something goes well or poorly or how I can help you learn better.

## Tests

- Three Exams during the semester, each worth approximately 50 points.
- One Final Exam at the end of the semester, possible points may range from 75 to 100.
- All students should be in class on the day of a test. If you are absent:
  - I expect a note, e-mail, or phone call from a parent/guardian on the test day or soon after.
  - The absence must also be excused through the attendance office.
  - You will take a make-up exam as soon as possible and not more than one week after returning. Make-up exams may be difficult and different than the original test and may not have any bonus questions.
- During a Test:
  - No one will be excused to use the restroom. (Go before class.)
  - Ask for scratch paper if you need some.
  - All class materials will be clearly put away at the front of the classroom.
  - No cell phones, computers, or other electronic devices even after completing the test.
- Unauthorized collaboration is a violation of the Academic Honesty Policy.
  - Students may not discuss a test with anyone after taking it unless approved by the teacher.
  - Do not ask your friends about the test. This pressures them to tell you something they shouldn't.
  - Tests may vary by class period. However, sharing any information about the test is still not allowed.
- There are no re-takes for tests and no tests are dropped from grades.

## Lecture Notes

- Course notes are available on the class website. Examples and details will be filled in during class.
- Students need to be in class and attentive during lectures.
- Phones, food, and work for other classes must be put away.

❖ **The best thing that students can do for success is to** ❖  
**complete the full homework assignment before each class.**

## Homework

- Use pencil, copy problems, and show all work thoroughly.
- Homework Assignment Sheets are available on the class website.
- These assignments are subject to change. Any changes will be announced in class.
- Each assignment lists Priority Problems, but full credit is earned by completion of full assignment.
- Homework will be collected and graded before each exam.
- ***Students should be prepared to discuss and review homework assignments at the beginning of each corresponding class.*** If students fail to do this, points may be deducted from grades and/or homework procedures and policies may change.
- Quizzes are indicated on the calendar and homework assignment sheets. They are completed as take-home, self-graded worksheets as an opportunity for students to assess their current knowledge of the material. See details about quizzes on the class website.
- ***Even though homework grades are based on completion, students must do their best to fully complete and understand each problem.***

## Projects and Computer Activities

- Each semester students will give approximately two or three presentations to the class with a partner.
- There may be a final project to be presented at the Advanced Math Open House in the spring.
- Several different computer activities will be assigned throughout the semester. These are to be completed with the computer program *Mathematica*. Students can get *Mathematica* for free through the school district by following the instructions provided on the class website.

**Course Topics**

- For a detailed list of course topics, please refer to the “Course Outline” for the class corresponding to SDSU or MCC. This is available on the class website and/or Google Classroom.

**Grades**

85%	Tests	Notes: The only “extra credit” in this course is a few bonus questions on tests. Also, students in Calc II (Calc C) must complete the class with a grade of at least 70% (C-) to qualify for Calc III (Calc D) and/or Linear Algebra.
15%	Homework, Presentations, Projects, Warm-Ups, Extra Activities, Participation, etc.	
100%	Final Grade	

Grading Scale: Values represent lower cutoffs.

92.5% A, 89.5 A–, 86.5 B+, 82.5 B, 79.5 B–, 76.5 C+, 72.5 C, 69.5 C–, 66.5 D+, 62.5 D, 59.5 D–, 0 F

Note that MiraCosta College does not issue + or – marks along with letter grades. For example, a “B+” according to the grading scale above would be marked as a “B” for the final grade. SDSU grades include + and – marks.

*Dear Students and Parents/Guardians,*

*This class is a unique opportunity for the students in the San Dieguito Union High School District. We are very fortunate to be able to award college credit to students who are successful in this course. I will communicate with you regarding the details of course fees and enrollment procedures as they become available.*

*Please note that, as a participant in a 4 unit college course, students are expected to spend significant, meaningful time outside of class working on assignments, reviewing material, and preparing for exams. One “rule of thumb” is that students should be committed to work toward mastery at least 2 hours per unit per week outside of class; that is 8 hours per week for a 4 unit course.*

*Also, as part of a standards-based curriculum at TPHS and throughout SDUHSD, students will be engaged in a variety of instructional strategies and assessments. In the past I have used presentations, interviews, pictures, project journals, reflective writing, peer critique, and video to record the progress of students’ learning and may incorporate some of these into this class. My goal is to enhance all students’ learning through reflective practice, a framework for learning that my colleagues and I have found motivating and effective. One of the strategies that I employ to cultivate my own learning as an educator is to share what I do in my class with others—teachers, administrators, parents, students, and professionals in and outside of the Torrey Pines High School community.*

*I am looking forward to this new school year with much enthusiasm. Each student will have the opportunity to explore new mathematical ideas and share what they have learned with others. If you have any questions or concerns, please contact me through the school at (858) 755-0125 ext. 2120 (voice mail) or [abby.brown@sduhsd.net](mailto:abby.brown@sduhsd.net) (e-mail preferred).*

*Thank You,*

*Abby Brown*

Please continue to the next page.

Name: \_\_\_\_\_ Period: \_\_\_\_\_

*Please print this page, sign the form below, and return this entire page to Ms. Brown.*

I have read and understand the class description and agree to do my best to fulfill the requirements for Ms. Brown's Calculus II (Calculus C) class for the semester.

I also understand that there is a semester course fee of \$368 paid to SDSU or the option without cost through MiraCosta. Registration details will be explained in class, and I will need to decide whether to earn credits through SDSU or MiraCosta and complete appropriate paperwork by the registration deadline at the beginning of the semester.

This class becomes Calculus III (Calculus D) for the second semester. This is also a college course. The class expectations and grading policy will remain the same. In February there is an additional course fee of \$368 that will be paid for SDSU credits or the option with no cost for MiraCosta credits. The Calculus III (Calculus D) course syllabus is also available on Ms. Brown's website [www.abbymath.com](http://www.abbymath.com).

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Student (print)

Signature

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Parent/Guardian (print)

Signature