

California State University San Marcos
Math 162, Calculus with Applications II
Fall 2008 Course Information

This document contains descriptions of the following information: the course content, instructor contact information and course management policies, required supplies, student learning support programs, homework, in class assessments, and grading policies, and student behavior policies. Students are expected to read the entire document and refer to it as necessary throughout the semester. The instructor reserves the right to modify policies if necessary, and will provide students with email notification of any updates or changes.

Description: A continuation of differential and integral calculus: inverse trigonometric and hyperbolic functions, integration methods, indeterminate forms, coordinate systems, planes and lines in space, sequences and series, applications, historical perspectives. Includes a laboratory experience using either computers or graphics calculators.

Prerequisite: Math 160 with a grade of C or better. Within the first week of the semester, enrolled students must bring the instructor a student advising transcript proving that they have met the course prerequisites. Otherwise, they will be dropped from the course.

Student Learning Outcomes: Upon completion of this course, a student will be able to do the following:

1. use the definition of the definite integral to calculate the area under and between certain functions;
2. use the definition of an antiderivative to compute indefinite integrals;
3. use the fundamental theorem of calculus to calculate simple definite integrals;
4. apply a wide range of techniques of integration to integrate polynomial, rational, trigonometric, and exponential functions, and also products of these functions;
5. find areas and volumes of basic regions using definite integrals;
6. find arclength and surface area of basic regions using definite integrals;
7. use parameter equations and polar coordinates to evaluate integrals;
8. determine the convergence properties of infinite series (discrete integrals).

GE Information: This is one of several courses that satisfy the Area B4 Mathematics/Quantitative Reasoning General Education Requirement. For a list of other options, consult the year of the CSUSM Catalog for which you hold General Education Rights (which is normally determined by the first semester of attendance). If in doubt, check with an academic advisor.

University Writing Requirement: The 2500 word writing requirement will be met via weekly homework assignments and regular in class assessments. As such, fully justified solutions are required for full credit. See homework below.

Instructor: Dr. Puha; Sci2-325; (760)750-4201; apuha@csusm.edu;
<http://www.csusm.edu/puha>.

Lecture Time:

All Sections: Mondays and Wednesdays 11am-11:50am in MARK 102;

Section 1: Fridays 10am-11:50am in MARK 306;

Section 2: Fridays 12pm-1:50pm in MARK 306.

Missed Lectures: It is your responsibility to get the lecture notes from one of your fellow classmates in the event that you are unable to attend a lecture.

Office Hours: Mondays & Wednesdays, 12pm-12:45pm.

Virtual Office Hours: Questions sent via email will be responded to during office hours, if time permits. Students physically present have priority.

Email Policies:

1. To avoid having your message routed into the instructor's spam folder, please send messages from your CSUSM student email account.
2. You are responsible for reading all messages sent to your student email address. If you prefer to read email at another address, please visit the CSUSM Webmail page and set your campus email to forward to that address.
3. The instructor will not respond to email messages that ask questions for which the answer is readily available on the course web page or course information sheet.

Course Web Page: <http://courses.csusm.edu/math162ap/>.

Preparing for Class: Please check the course web page. It will state what section of the textbook to read before lecture, and what other activities you need to do to prepare for lecture.

Required Materials: Single Variable Calculus: Early Transcendentals, 6th Edition. James Stewart. Please bring your textbook to each class meeting.

Approved Calculators: The TI-30X IIB and TI-30X IIS are the ONLY calculators that are approved for use in this class. Please bring your calculator to each class meeting. NO other electronic devices are to be out on your desk or turned on during class. This includes ALL other calculators, cell phones, and laptops. Such calculators are often available at local electronics stores. They can also be purchased online at http://education.ti.com/educationportal/sites/US/productCategory/us_scientific.html.

Learning Assistant Program: Three Learning Assistants have been hired to provide you with additional support in mastering the material for this course. One is assigned to each section, and they will help to facilitate active learning during the lecture portion of this course. These students were not only selected because they are model students and high academic achievers, but also because they are exploring the possibility of pursuing a single subject teaching credential in mathematics or science. This means that they are not expert teachers. However, they are receiving some weekly training and will no doubt become more and more effective as the semester progresses. You are expected to show them respect, patience, and support at all times!

Learning Assistants: You are expected to know the Learning Assistants names.
Section 1, Juan Noguez—he prefers to be called Andrés
Section 2, Nora Lazcano

Math Tutor Lab: The CSUSM Math Lab offers free walk-in tutoring services and numerous resources to CSUSM mathematics students and faculty members. Whether you are struggling with your homework, preparing for exams or quizzes, learning how to use all the options on your calculator, or just want to talk about mathematics, the tutors are here to assist you. The Math Tutor Lab offers tutoring assistance for the following mathematics courses: GEM 100, Math 15, Math 050, Math 051 and 051C, Math 115, Math 125, Math 132, Math 160, Math 162, Math 210, Math 212, Math 303, Math 304, and Math 311. No appointment necessary. Visit http://www.csusm.edu/math_lab/ for hours and location.

Homework: Homework assignments will be assigned via the course web page and due at the beginning of lecture on the due date (Fridays). Clear, complete, fully justified solutions are required for full credit. This entails defining all variables, showing all calculations, including diagrams, and providing several clear, complete, grammatically correct sentences explaining your solution. Such sentences can be either mathematical notation, English language, or a combination of both. Presentation also counts and solutions must be presented in the order in which they are assigned on the course web page. Final answers should be neatly circles or boxed. Papers must be stapled (no paperclips) and responses must be legible and well organized. NO LATE HOMEWORK and NO ELECTRONIC SUBMISSIONS will be accepted.

Questions are welcome in office hours and also at the Math Tutor Lab. Students are expected to make an earnest effort to answer the questions asked and to clarify their concerns before seeking help. A good plan is to dwell on the question for at least 24 hours before asking for help. To this end, students should start the assignment as soon as possible, and no later than the Monday before it is due. Students should expect to have questions and plan to either go to a supplemental instruction session, the math tutor lab, or office hours at least once or twice each week to get a quality assignment turned in by the deadline.

Friday Homework Quiz: Most Fridays, several questions will be selected from the homework assignment due on that day. Those questions themselves or slightly modified versions of those questions will compromise the quiz. The ONLY resource available to each student

during the quiz will be the homework solutions written by that student. In particular, the solutions **MUST** be written by the student who is using them and **MUST NOT** be mixed in with lecture notes or other additional information.

You will staple your homework to the quiz and turn in the entire package. A portion of your homework score will come from grading the correctness and presentation of your responses to the quiz portion. A portion of your homework score will come from examining the completeness of your assignment. If it looks like you worked it out and got the correct answer, you will get points for that question.

In-Class Worksheets: Throughout the semester there will be 8 in-class worksheets to be done in groups of three. The worksheets will be graded as a team, some part from each student in the group. Everyone will receive the same score. So it is in your best interest to make sure that each member of your group has a nice write up.

In-Class Assessments: Three midterm exams and one final exam will be given. To prepare, students should review the assigned reading, homework questions, and the lecture notes. **NO ELECTRONIC** devices are allowed on exams except the approved calculators. This includes, but is not limited to computers, calculators, cell phones, and i-pods. All such devices should be turned off and stowed securely in your backpack, i.e., not in your pocket or other easily accessible location. **NO MAKEUP ASSESSMENTS**, i.e., students must take the assessment on the schedule day during the schedule class meeting. This means that an assessment can**NOT** be taken early or late. Please plan accordingly.

Students must bring any grading/scoring concerns to the attention of the professor the same day that the assessment is returned. If you are unable to discuss this with the professor in person, write a note and leave the note and the exam in the professor's mailbox located on the 3rd floor of Science Hall 2.

Midterm Exam Dates:

Exam One: Friday, September 26, 2008.

Exam Two: Friday, October 24, 2008.

Exam Three: Friday, November 21, 2008.

Final Exam: The exam is comprehensive. Please bring a self addressed, stamped postcard (available at the bookstore) if you would like your grade mailed to you.

Final Exam Dates: Monday, December 8, 2008, 9:15am-11:15am.

Point Values:

Each Homework Assignment/Quiz	Each Worksheet	Each Exam	Final Exam
65	35	800	1600

Grades: If you perform better on the final exam than on one of your midterm exams, the associated score will be dropped and your final exam will be weighted heavier in the computation of your final course grade. In particular, your grade will be calculated from the best of the following options:

TBA

Letter grades will be assigned as follows:

Above	96%	92%	88%	82%	78%	74%	68%	64%	58%	50%	44%	0%
Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F

Academic Honesty: Academic dishonesty will NOT be tolerated. Violations will be punished with a grade reduction (determined by the instructor) and reported to the Dean of Students for additional disciplinary action.

Academic Honesty and Homework: The instructor recognizes that students benefit from discussing approaches to the assigned homework questions with their classmates. This practice is encouraged. However, it is expected that each student will make an independent attempt to solve any given homework question and clarify their own thoughts before discussing it with his/her classmates. It is also expected that each student will submit an independent final write up of his/her work. To achieve this, the final write up should be completed without referring to a book or notes and without asking others for assistance. The student should continue to study and ask questions until a final independent write up can be achieved.

Academic Honesty and Learning Resources: Students are only permitted to use resources specifically intended for student use in this class. In particular, there are NO circumstances under which students are permitted to use a resource intended for the instructor or made available by another instructor. If you find a resource that you would like to use and aren't sure whether it is permitted, simply ask the instructor in advance.

Classroom Etiquette:

1. **Do not address the professor using his/her first name.** Unless otherwise instructed, your instructor should be addressed as "Professor So and So" or "Doctor So and So". Students can address me as Dr. Puha.
2. **Do not chat with thy neighbor during class.** Most instructors, myself included, don't mind if you whisper to your neighbor something like "Is this from section 2.2?" Or "Did she just make a factor of 2 mistake in that last step?" When the group is focused on a topic, individual conversations between students, even about that topic, are disruptive and rude and will be dealt with firmly.
3. **Do not show up late.** If you must disturb the class in this way on a given day (stuck in traffic or something) you should be unobtrusive about your entry.
4. **Do not get up and walk out halfway through class.** It disturbs people and gives the unmistakable impression that you don't respect the class, the other students and the instructor. Taking a cell phone call or answering a page do not constitute emergencies. If you cannot follow this rule do not take my class.

5. **Do not cut the instructor off at the end of class.** The instructor has the right to finish his or her thought at the end of the class period and conclude the class in an orderly manner without people standing up and walking out. (There is a separate list of rules for instructors. On that list is a rule that says “Do not *routinely* keep students more than a minute or two after the official end of the period.”)
6. **Do not ask the instructor to go over again material you missed because you skipped a class.**
7. **All electronic devices (including computers, cell phones, i-pods, and pagers) must be turned off and put away during class, except the calculator approved for use in this course.** Your brain cannot multitask. So stay focused on the lecture and classroom activities. This has become a real problem. I will confiscate any devices not turned off and put away. You will need to make an appointment with the dean of students to retrieve your property.
8. **Do not discuss topics unrelated to the assigned exercise during in-class group work.** It is a privilege to be able to think independently and discuss the course material with your fellow students, so take full advantage of these opportunities. If you have finished the activity (which means that you could go to the blackboard and present the conclusions that your group arrived at), sit quietly and do one of the following: review the conclusions, read the class textbook, or review the course lecture notes.
9. **Do not work on homework during lecture.** If you don't want to engage in classroom activities, don't come to class. It is that simple.
10. **Always show respect and courtesy to the instructor, learning assistants, and SI leader.**

These rules are subject to modification and expansion by the instructor. When in doubt, ask the instructor. Students unable to comply with these rules will be face the following disciplinary actions:

1. **First Offense:** Warning
2. **Second Office:** Required to leave class and make an appointment with the instructor to discuss the violation before returning to class.
3. **Third Offense:** Required to leave class and referred to the Dean of Students for appropriate disciplinary action.
4. **Fourth Offense:** Expelled from class for the remainder of the semester and referred to the Dean of Students for appropriate disciplinary action.