

ALAMO COLLEGES DISTRICT • PALO ALTO COLLEGE • - • MATH-MATHEMATICS

ALAMO COLLEGES DISTRICT
Palo Alto College

CALCULUS I MATH-2413

Full Term Fall 2017 Section 007.15056

4-4-0 Credits 08/28/2017 to 12/16/2017 Modified 09/10/2017

MEETING TIMES

This course meets Monday and Wednesday from 10:00-11:40 in San Marcos Hall room 102.

CONTACT INFORMATION

Assistant Professor: Brian Hons

Office Location: Nueces Hall 125

Office Phone: (210)-486-3285

Email Address: bhons@alamo.edu

Office Hours: Monday-Friday by appointment only.

MATERIALS

Calculus Early Transcendentals

Author: Briggs

Edition: 2nd

ISBN: 0-321-94734-7

DESCRIPTION

Limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to

calculation of areas. This course fulfills the Mathematics foundational component area of the core and addresses the following required objectives: Critical Thinking, Communication, and Empirical Quantitative Skills.

Prerequisites

MATH 2412 with a grade of "C" or better, or equivalent or permission by department

INRW 0420

OUTCOMES

- 1 Develop solutions for tangent and area problems using the concepts of limits, derivatives, and integrals.
- 2 Draw graphs of algebraic and transcendental functions considering limits, continuity, and differentiability at a point.
- 3 Determine whether a function is continuous and/or differentiable at a point using limits.
- 4 Use differentiation rules to differentiate algebraic and transcendental functions.
- 5 Identify appropriate calculus concepts and techniques to provide mathematical models of real-world situations and determine solutions to applied problems.
- 6 Evaluate definite integrals using the Fundamental Theorem of Calculus.
- 7 Articulate the relationship between derivatives and integrals using the Fundamental Theorem of Calculus.

EVALUATION

Homework: Homework will be assigned every class day. The homework assignments will be from text and also in worksheet form. The problems from the text will not be turned in. The worksheets will be turned in and graded.

Quizzes: There will be a quiz every other Wednesday. The problems will be similar to the homework problems. Quizzes will be timed (30 minutes).

Midterm Exam: There will be a midterm exam on Wednesday, October 18. It will cover the material from the first seven weeks of class.

Final Exam: There will be a final exam on Wednesday, December 13, from 10:00 to 12:00. The final will cover all the material from the course. Your final exam grade will be used to replace your midterm exam grade if it benefits your average.

Course Grade: Your course grade will be computed as follows:

$$\text{course grade} = 0.2(\text{homework average}) + 0.3(\text{quiz average}) + 0.5(\text{midterm/final average})$$

Grade Scale: 90-100 A; 80-89 B; 70-79 C; 60-69 D; 0-59 F

COURSE POLICIES

Drop Policy: If circumstances occur that make it necessary for you to drop this course, send me an email requesting that I drop you and I will take care of it. You do not need to come to campus to drop the course. The last day to drop the course is Friday, November 17. College policy does not allow students to drop after this date. *****THERE IS ALSO A NEW AUTOMATED DROP PROCEDURE. DETAILS WILL BE GIVEN DURING THE FIRST CLASS MEETING.*****

Email Policy: Emails are the preferred method of contact, not phone messages. You may send me an email using your student email account in ACES or you may email me in Canvas. I usually respond within the hour, but just like everyone else, I'm busy from time to time, so it may take longer.

Workload Policy: This is a 4 hour course. The number of hours you would be in a classroom for this course is 64. Normally, one should spend 2 hours studying for every hour spent in class. This brings the total hours you should work on this course to 192. If you divide this over 16 weeks, then you should be spending 12 hours a week working on this course.

Learning Disabilities: Please see the section at the end of this syllabus for information on support services for students with learning disabilities.

SCHEDULE

Week 1	Sections 3.1 and 3.2
Week 2	Sections 3.3 and 3.4, Quiz 1
Week 3	Sections 3.4 and 3.5
Week 4	Sections 3.6 and 3.7, Quiz 2
Week 5	Sections 3.8 and 3.9
Week 6	Sections 3.10 and 3.11, Quiz 3
Week 7	Sections 4.1 and 4.2
Week 8	Review and Midterm Exam
Week 9	Sections 4.3 and 4.4
Week 10	Sections 4.5 and 4.6, Quiz 4
Week 11	Sections 4.7 and 4.8
Week 12	Sections 4.9 and 5.1, Quiz 5

Week 13	Sections 5.2 and 5.3
Week 14	Sections 5.4 and 5.5, Quiz 6
Week 15	Sections 2.1-2.6, Final Exam Review
Week 16	Final Exam

ADDITIONAL ITEMS

The Palo Alto College Testing Center is located in Brazos Hall room 100. The phone number is 210-486-3444. Please visit the following website for more information

<http://www.alamo.edu/pac/testing-center/makeup/>

INSTITUTIONAL POLICIES

STUDENT RESPONSIBILITIES:

A. Attendance:

SmartStart. Student absences will be recorded from the first day the class meets, and beginning Fall 2014, students who do not attend the first scheduled class meeting or contact the instructor will be dropped. Students should verify the drop is completed.

For fully online courses, an attendance verification activity is assigned and must be completed by the 3rd class day.

Effective Spring Term 2010, student absences will be recorded from the first day the class meets. Regular and punctual attendance in all classes and laboratories, day and evening, is required. Students who are absent for any reason should always consult with their instructors. Course syllabi must provide specific information regarding attendance, including, for courses involving the internet, online activity that constitutes "attendance." Also, both tardiness and early departure from class may be considered forms of absenteeism. In all cases, students will be held responsible for completion of course requirements covered in their absence.

Additionally, it is the student's responsibility to drop a course for nonattendance. Course instructors establish policy with regard to attendance in their respective syllabi and may drop a student for excessive absences. Absences are considered excessive when more than 12.5 percent of the total contact hours of instruction in a semester, including lecture and lab, are missed. For example, in a three-credit-hour lecture class, students may be dropped after more than six contact hours of absences. In a four-credit-hour lecture/lab class, students may be dropped after more than eight contact hours of absences. Absences are counted regardless of whether they occur consecutively.

In special programs with additional accreditation or certification standards, additional attendance requirements may be enforced but faculty must clearly explain these policies in their syllabi. Students who stop attending class for any reason should contact the instructor and the college registrar to officially withdraw from the class. Students may be required to consult with an advisor or designee before dropping.

Failure to officially withdraw may result in a failing grade for the course. It is the student's responsibility to withdraw officially from a class by submitting a completed Withdrawal Form to the Admissions and Records Office.

B. Early Alert and Intervention

Alamo College instructors care about students' success in every course. During the semester, students may receive alert emails through the ACES account regarding their progress and ultimate success in a course. Upon receipt of the email, students are to contact the course instructor to discuss specific tasks or actions to improve success in this course. In addition, students will also need to meet with their Certified Advisor. Discussions with faculty and Certified Advisors allows the student to identify actions that will help to successfully complete course requirements at the colleges of the Alamo Colleges District.

C. Student Responsibility for Success (Alamo Colleges District Policy F.6.2):

As members of the Alamo Colleges District learning community, students, faculty, staff and administrators all share the responsibility to create an atmosphere where knowledge, integrity, truth, and academic honesty are valued and expected. A clear acknowledgment of the mutual obligations of all members of the academic community emphasizes this implicit partnership in fostering the conditions necessary for student success.

In this relationship, the Alamo Colleges District provides institutional policies, procedures, and opportunities to facilitate student learning that encourage interaction, involvement and responsible participation. Inherent in the academic climate is the expectation that students will assume responsibility for contributing to their own development and learning. Academic success is directly tied to the effort students put into their studies, the degree to which they interact with faculty and peers, and the extent to which students integrate into the campus life.

1. Engagement

1. Create connections and build relationships with faculty, staff and students (visit during office hours, join clubs and organizations, participate in student activities, etc.);
2. Stay informed of policies, procedures, deadlines and events for academic and co-curricular activities;
3. Complete all requirements for admission, registration, and payment by deadlines;
4. Apply for financial assistance, if needed, complying with all federal, state and local regulations and procedures;
5. Meet all federal, state and local health care regulations.

2. Communication

1. Seek guidance from faculty, advisors or counselors for questions and concerns in regards to degree plans, major selection, academic status, grades, and issues impacting college success;
2. Develop a peer support system to identify student contacts for questions, group assignments, etc. regarding academic and co-curricular activities;
3. Communicate with College personnel promptly regarding academic or co-curricular concerns and assistance requests;
4. Carefully consider the information provided by College personnel and make decisions using that information;
5. Check the Alamo Colleges District's Web Services regularly for emails, holds, student records, financial aid status and announcements;
6. Submit disability documentation if seeking services and request academic accommodations in advance of each semester.

3. Academic Success

1. Complete courses with passing grades and maintain good academic standing (2.0 GPA) status;
2. Read and follow all syllabi;
3. Purchase textbooks and required supplies in a timely manner;
4. Attend classes regularly and on time, with as few absences, late arrivals, and early exits as possible;
5. Arrive to class with all needed materials and completed assignments for that class period;
6. Be attentive in class and actively participate as appropriate;
7. Devote sufficient time for studying;
8. Ensure integrity in all aspects of academic and career development;
9. Accurately represent one's own work and that of others used in creating academic assignments. Use information ethically and exercise appropriate caution to avoid plagiarism on all assignments;
10. Notify faculty in advance or as soon as possible about absences and provide documentation as appropriate;
11. Consult faculty members in advance when unable to complete projects, assignments, or take examinations as scheduled.

4. Self-Responsibility and Responsibility to Others

1. Maintain accurate and complete degree/certificate major selection and contact information including name, address, phone number and emergency contact;
2. Balance personal obligations and educational pursuits. Work with a counselor / advisor to design a realistic schedule that dedicates adequate effort to be successful in college studies;
3. Know and follow the regulations and guidelines outlined in the Student Code of Conduct and Student Handbook;
4. Maintain respectful and appropriate behavior within and outside the classroom;
5. Ask for help when needed. Use all available resources and facilities provided by the College to enhance the learning experience;

6. Attend scheduled advising sessions, tutorials, and other appointments. Cancel or reschedule only with good reasons as early as possible;
7. Arrive prepared for tutorial sessions, bringing all needed materials (books, syllabi, rough drafts, calculators, assignment sheets, etc.).

D. Textbook Availability

A student of this institution is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

E. Licensed Concealed Campus Carry

No open carry of firearms is allowed on all property owned, controlled, or leased by the College District, including vehicles operated by the Alamo Colleges District. Concealed carry of a handgun by persons licensed to carry may not be restricted except in locations signed as prohibited areas.

- Special testing locations requiring a complete surrender of personal effects during testing will be signed as prohibited areas.
- Persons may be required to place their purse, backpack or briefcase away from their person, but within their view during tests at the direction of their instructor or test administrator.
- License holders carrying on campus intending to access prohibited areas must leave their weapons locked in their vehicles. College lockers are not authorized for storage of handguns by license holders.

Disciplinary Sanctions

Open carry, intentional display, unlicensed carry, and carry in spite of signed prohibition are subject to employee and student discipline, as well as possible prosecution. Unintentional display of a weapon by a license holder must be avoided. Police will exercise their enforcement discretion.

If you see a person openly carrying or deliberately displaying a firearm:

- Call the Alamo Colleges District Police 210-485-0911
- Do not confront the person or ask if the person has a permit

COLLEGE REQUIREMENTS:

While other exams are given at the discretion of the instructor, a final assessment is given at the end of each semester for each course. The Final Exam Schedule changes with each term and differs from normal class meeting dates and times. See the Final Exam Schedule in the Catalog/Schedule of Classes in the left hand navigation bar.

A student who must be absent from a final evaluation should petition that instructor for permission to postpone the evaluation. A student absent without permission from a final evaluation is graded "0" on the exam.

Incomplete Grades. The conditional grade of "I" may be issued to a student having a passing average on all completed coursework but for a justified reason, such as illness or death in the family or by providential hindrance, has been prevented from taking the final examination or completing other

required coursework. The "I" becomes an "F" in one hundred twenty (120) calendar days from the end of the term unless the student completes the balance of the coursework with a performance grade of "D" or higher. Re-enrollment in the course will not resolve the "I." The student and faculty must fill out an Incomplete Contract, clearly defining the work remaining to be finished.

COLLEGE POLICIES

COLLEGE POLICIES:

A. All of the colleges of the Alamo Colleges District are tobacco free.

B. Alamo Colleges District DPS Emergency Phone Numbers:

Emergency Phone (210) 485-0911

General Phone (210) 485-0099

Weather Phone (210) 485-0189 (For information on college closures)

D. Students are required to silence all electronic devices (e.g., pagers, cellular phones, etc.) when in classrooms, laboratories and the library.

Disability Access Statement – In accordance with the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act, it is the responsibility of the student to self-identify with the campus Disability Services office. Only those students with appropriate documentation will receive a letter of accommodation from the Disability Services office. Instructors are required to follow only those accommodation and/or services outlined in the letter of accommodation. For further information, please contact the Disability Services office at (210) 486-3020 or visit the office located in the Palomino Center, Room 101. If you have specific needs, please discuss them privately with your instructor.