

SYLLABUS AND CLASS POLICIES
MATH 1501.02, CALCULUS I
Fall Semester 2008

PROFESSOR: Christian Barrientos

OFFICE HOURS: Monday 15:30 – 17:30 hrs.
Tuesday 11:00 – 13:00 hrs.

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COURSE DESCRIPTION: This course is a study of algebraic, trigonometric, logarithmic, and exponential functions including limits, continuity, the derivative, and differentiation, the definite integral, and applications.

PREREQUISITE: Math 1113 with a C or higher (or equivalent mathematics placement score)

COURSE GOALS: This course should enable you to utilize mathematical skills, concepts, and ideas to interpret information and solve problems often encountered in the lives of educated people. Specifically, the course is directed toward:

1. Enhancing your critical thinking and communication skills within a mathematical context utilizing tasks that require (a) interpretation of relationships using variables and (b) solving problems using a variety of mathematical constructs from algebra, geometry, trigonometry, and differential calculus.
2. Providing the appropriate knowledge base for those students who plan to continue studying calculus.

COURSE OUTCOMES:

- **COMMUNICATION:** Students will gain a knowledge base of calculus concepts in analytical, graphical and numerical form. Students will communicate their ideas orally in class discussions and in written form on assessments.
- **CRITICAL THINKING:** Students will apply their knowledge to solve applied problems presented in class, on quizzes, and on examinations. Students will determine the mathematical question and appropriate calculus concepts with which to draw a conclusion, and then provide evidence of a logical answer.

GENERAL OUTLINE OF CONTENT: Math 1501 consists primarily of topics from algebra, trigonometry, and differential calculus, with an introduction to integration. Tentatively, the topics to be included from the required textbook are:

- Limits and Derivatives (Chapter 2: Sections 1 – 3 and 5 – 8)
- Differentiation Rules (Chapter 3: Sections 1 – 7 and 9 – 11)
- Applications of Differentiation (Chapter 4: Sections 1 – 9)
- Introduction to Integration (Chapter 5: Sections 1 – 4)

TECHNOLOGY PREREQUISITE: The computer is used extensively in this course. *You should bring your computer and your textbook to each class meeting* and immediately set up your computer, unless otherwise informed by your instructor. Basic computer skills such as windows file management and using email are necessary to succeed in Math 1501. If you do not have the skills covered in both of these workshops, then it is strongly recommended that you seek additional assistance as soon as possible. These skills will not be taught in Math 1501. Individual assistance and workshops are offered through the HUB when there is enough demand. Students should make an appointment with the

HUB to have software loaded on their computers. Please see the [DUCK](#) for information about activating email accounts. More information on the services that are offered through the HUB can be found at <http://thehub.clayton.edu>.

REQUIRED MATERIALS:

- **TEXTBOOK:** Calculus, Early Transcendentals, 6th Edition by James Stewart, Brooks/Cole Publishing Company, 2008. This includes access to the WebAssign online materials.
- **COMPUTER:** A notebook computer is required in Math 1501. Students will use their notebook computers during class sessions and tests. Clayton State University **requires** that students have ready access throughout the semester to a notebook computer that meets faculty-approved hardware and software requirements for the student's academic program. See the website <http://itpchoice.clayton.edu> for full details of this policy.
- **SOFTWARE:** The mathematical software that will be used in the course is Maple 12. The University System of Georgia has a site license which allows faculty and students to use MAPLE free of any individual cost. During the first week of classes, your instructor will provide a copy of MAPLE for you to install on your laptop computer.
- **WEB MATERIALS:** The course syllabus, important information, and electronic files for download are available on the instructor's course website. Students should refer to this course website frequently for information pertaining to this class. The WebAssign Course management system will be used for online graded homework assignments and additional supplemental materials. Information on how to register for the course is included with your textbook. A Course Key Access Code is needed to register for your course.

YOU SHOULD BRING YOUR COMPUTER AND TEXTBOOK TO EACH CLASS MEETING.

UNIVERSITY POLICIES: See the current online Academic Catalog at, <http://publications.clayton.edu/catalog/> for details on the following policies.

- Any student who has failed to attend a class by the final payment deadline for the term will be identified as a “no show.” Each “no show” student is administratively withdrawn from the class, a grade of W will be posted, and the student is NOT be reinstated. Any appeals on the decision are made to the dean of the student major.
- A student who has withdrawn or earned less than a satisfactory grade (F, U, D, WF, W) a total of three times in a credited course at CSU will not be allowed to take the course again. Any appeals on the decision are made to the dean.
- The mid-term grade in this course, which will be issued by October 10th, reflects approximately 30% of the entire course grade. Based on this grade, students may choose to withdraw from the course and receive a grade of "W." Students pursuing this option must fill out an official withdrawal form, available in the Office of the Registrar, by mid-term, which occurs on October 10th.
- For students in Math 1501 a grade of C or better is a prerequisite for subsequent math courses at CSU.
- Students are expected to abide by the Student Code of Conduct in the [Clayton State University Student Handbook](#), and the [Basic Undergraduate Student Responsibilities](#). Academic integrity is of paramount importance at Clayton State University. Students who violate the conduct code regulations will face disciplinary action and/or University sanctions.
- Students are expected to attend and participate in every class meeting. The university reserves the right to determine that excessive absences, whether justified or not, are sufficient cause for institutional withdrawals or failing grades. Academic integrity is of paramount importance at Clayton State University.
- For information about Disability Services or to obtain this document in an alternative format, contact: The Director of Disability Services (Office of Disability Services, University Center) at 678-466-5445, disabilityservices@clayton.edu.

RESOURCES AVAILABLE TO MATH 1501 STUDENTS:

- You paid a handsome sum for your book so use it for more than just the exercises. Your text has many explanations and examples that are surprisingly helpful when read in conjunction with class discussions. The

Tools for Enriching Calculus CD-ROM contains modules to enrich your understanding of calculus as well as homework hints for selected exercises. Additionally, WebAssign has useful information on concepts and skills for the course.

- Your instructor holds regular office hours and is willing to assist you with any questions you may have during the semester.
- The Center for Academic Assistance (CAA) is located on the lower level of the Library. Go to <http://admins-services.clayton.edu/caa/> for information on tutoring programs and other assistance.

ASSESSMENT AND EVALUATION: Your grade in this course will be determined by the points that you earn on the midterm and final examinations, quizzes, and graded labs as follows:

Type Assessment	Points Possible	Grade Scale	Percentage	Points
Homework	100	A	90%	450
3 Tests	300	B	80%	400
Final Exam	150	C	70%	350
Total Points	550	D	60%	300
		F	< 60%	< 300

TESTS/EXAMS: The final exam will be comprehensive. No student will be excused from taking tests or the final exam. Failure to take the final exam will result in the grade of “F” for the course. Because of the concentrated nature of the tests, and the logistical difficulties of make-up tests, students will NOT be allowed to make-up tests, and will receive a zero for that test. The final exam will be allowed to count twice and replace your lowest test grade in addition to counting as the final.

HOMEWORK: There will be regular graded homework assignments administered electronically within the WebAssign online environment. Due dates for each of these assignments will be posted in WebAssign. All homework is due on the assigned date. *No late assignments can be accepted.* Homework may always be turned in early. In order to succeed in this course, a student must do each homework assignment. On average, homework will require three hours, per semester credit hour, of work outside of class each week.

IMPORTANT DATES:

- August 18: Classes begin
- August 21: Schedule Adjustment ends
- September 1: Labor Day (no classes)
- September 17: Test No. 1
- October 10: Last day to withdraw and receive a W grade
- October 22: Test No. 2
- November 26: Thanksgiving break (no classes)
- December 3: Test No. 3
- December 5: Last day of classes
- December 6-12: Final Exams

Students with disabilities who require reasonable accommodations need to register with Disability Services (DS) in order to obtain their accommodations. You can contact them at 678-466-5445 or disabilityservices@clayton.edu. If you are already registered with DS and are seeking accommodations for this course, please make an appointment with your

instructor to discuss your specific accommodation needs for this course and give the instructor your accommodations letter.

The content of this course syllabus correlates to education standards established by national and state education governing agencies, accrediting agencies and learned society/ professional education associations. Please refer to the course correlation matrices located at the following web site:

<http://a-s.clayton.edu/teachered/Standards%20and%20Outcomes.htm>

ELECTRONIC MESSAGES:

- The instructor may send e-mails with information vital to your success in the course. Check your e-mail often, at least once a day.
- Any voice-mail or e-mail messages are returned during the regular workweek.
- **ABSOLUTELY NO GRADED ASSIGNMENTS WILL BE ACCEPTED VIA E-MAIL.** Assignments must be turned in as the instructor directs.
- The instructor will NOT email or telephone to tell you everything you missed in class if you did not attend that day.
- Because of the number of students we typically have, there may be some delay in the instructor's response to an individual's e-mail.
- Do not send time-sensitive information via e-mail; speak to the instructor in person. A delivered e-mail does not relieve you of the responsibility of informing the instructor about some concern.
- Do not send a personal e-mail correspondence to the instructor via the email class list.

ATTENDANCE:

Students are expected to attend each class session. Attendance will be done electronically at every class meeting. Students who leave class early or arrive late will be counted absent for that class, unless prior approval has been obtained by the instructor. Students are responsible for knowing about announcements/assignments made in class, whether or not the student is present. Attendance is required for examination periods.

EXCUSED ABSCENCES: The student is responsible for providing satisfactory evidence to the instructor to substantiate the reason for absence. Among the reasons absences are considered excused by the university are the following:

- Participation in an activity appearing on the university authorized activity list.
- Death or major illness in a student's immediate family. Immediate family may include: mother, father, sister, brother, grandparents, spouse, child, spouse's child, spouse's parents, spouse's grandparents, stepmother, step-father, step-sister, step-brother, step-grandparents, grandchild, step-grandchild, legal guardian, and others as deemed appropriate by faculty member or student's academic dean.
- Illness of a dependent family member.
- Participation in legal proceedings or administrative procedures that require a student's presence.
- Injury or illness that is too severe or contagious for the student to attend class. The student should obtain a medical confirmation note from his or her medical provider. The medical confirmation note must contain the date and time of the illness and medical professional's confirmation of needed absence. An absence for a non acute medical service does not constitute an excused absence.
- Required participation in military duties.

DISTRACTIONS: The use of pagers, radios, and cellular phones in class is **PROHIBITED**. Out of courtesy and respect for everyone's learning environment, **TURN THEM OFF!!!**

VISITORS: It is against CSU policy to allow any person not registered for a course to attend a class meeting. In particular, it is not reasonable to expect children to be able to sit quietly throughout a class meeting or testing period;

please make alternate arrangements sufficiently ahead of time to avoid being "stuck" in a childcare dilemma.

DISRUPTIVE CLASSROOM BEHAVIOR

Disruptive behavior in the classroom can negatively effect the classroom environment as well as the educational experience for students enrolled in the course. Disruptive behavior is defined as any behaviors that hamper the ability of instructors to teach or students to learn. Common examples of disruptive behaviors include, but are not limited to:

- Eating in class
- Monopolizing classroom discussions
- Failing to respect the rights of other students to express their viewpoints
- Talking when the instructor or others are speaking
- Constant questions or interruptions which interfere with the instructor's presentation
- Overt inattentiveness (e.g., sleeping or reading the paper in class)
- Creating excessive noise
- Entering the class late or leaving early
- Use of pagers or cell phones in the classroom
- Inordinate or inappropriate demands for time or attention
- Poor personal hygiene (e.g., noticeably offensive body odor)
- Refusal to comply with faculty direction

Students exhibiting these types of behaviors can expect a warning from the instructor or dismissal for the lesson in which the behavior occurs. Failure to correct such behaviors can result in dismissal from the course.

More extreme examples of disruptive behavior include, but are not limited to:

- Use of profanity or pejorative language
- Intoxication
- Verbal abuse of instructor or other students (e.g., taunting, badgering, intimidation)
- Harassment of instructor or other students
- Threats to harm oneself or others
- Physical violence

Students exhibiting these more extreme examples of disruptive behavior may be dismissed from the lesson or the entire course.

Students dismissed from a lesson will leave the classroom immediately or may be subject to additional penalties. Dismissed students are responsible for any course material or assignments missed.

Students dismissed from a course have the right to appeal the dismissal to the department head responsible for the course. Appeals beyond the department head may also be pursued. If no appeal is made or the appeal is unsuccessful, the student will receive a grade of WF (withdrawal – failing) regardless of the current grade in the course.

Conditions attributed to physical or psychological disabilities are not considered as a legitimate excuse for disruptive behavior.