

**SYLLABUS
MAT 271 WD1
CALCULUS 1**

SUMMER 2009

Faculty Information

Instructor: R. Trent Codd, Jr., AA, BS, BSCS, MA, EASGC
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Course Information

Course Title: Calculus 1
Course Number: MAT 271 WD1
Credit Hours: 4
Contact Hours: 5
Class Location: ELM 344
Class Meeting Time: MTW 11:00 AM-12:20 PM Lecture
TH 09:30 AM-12:20 PM Lab

Course Description This course covers in depth the differential calculus portion of a three-course calculus sequence. Topics include limits, continuity, derivatives, and integrals of algebraic and transcendental functions of one variable, with applications. Upon completion, students should be able to apply differentiation and integration techniques to algebraic and transcendental functions. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural science/mathematics.*

Prerequisite: MAT 172 or MAT 175

Textbook James Stewart, *Calculus Early Transcendentals, 6th Edition*, bundled with *WebAssign*, Thomson Brooks/Cole Publishing Company 2008.

Course Goal: Upon completion, students should be able to apply differentiation and integration techniques to algebraic and transcendental functions.

Course Specific Competencies: Upon successful completion of the course, the student should be able to:

- Describe and manipulate functions and models.
- Evaluate limits and derivatives.
- Write the rules for differentiation.
- Solve application problems using differentiation.
- Evaluate antiderivatives.
- Evaluate basic integrals.

Reinforcement Experiences for General Education Cross-Curriculum Competencies

The course encapsulates reinforcement experiences for the general education cross-curriculum competencies:

1. Demonstrate effective speaking, writing, reading and listening skills.
2. Demonstrate proficiency in analyzing problems and making logical decisions through locating, evaluating, and using information.
3. Demonstrate proficiency with math skills and/or natural sciences knowledge by organizing and analyzing information to come to logical conclusions.
4. Demonstrate basic competency in computer technology.
5. Demonstrate knowledge of cultural diversity.

Grading Policy There will be **on-line homework assignments, weekly lab assignments and five unit tests** throughout the semester. **Makeup tests will not be given and lab assignments cannot be turned in after the deadline.** If for any reason it is necessary for you to withdraw from this class, you must complete the appropriate form and submit it to the Records and Registration Office by the deadline. If you quit attending class without completing the appropriate forms your grade will become an "F". The final grade will be $\frac{1}{6}$ **the average of your homework scores, $\frac{1}{3}$ the average of the lab assignments, and $\frac{1}{2}$ the average of your test grades.** A(90-100), B(80-89), C(70-79), D(60-69), F(below 60).

Attendance Policy: To receive course credit, a student should attend a minimum of 80 percent of the contact hours of the class. Upon accumulating absences exceeding 20 percent of the course contact hours, the student may be dropped from the class with a grade of "U" at the discretion of the instructor. A tardy is defined as arriving late for class, leaving early, or being away from class without permission during class hours. Three tardies constitute one absence.

Summer Session - 2009

Registration: Current and Continuing Students	May 4 - 8
General Registration	May 11 - 15
Last Day to Pay Tuition and Fees	May 15*
<i>* Unpaid registrations will be deleted from the computer registration system at 4:30 p.m.</i>	
Late Registration	May 18 - 22
Last Day to Pay Tuition and Fees for Late Registration	May 22*
<i>* Unpaid registrations will be deleted from the computer registration system at 4:30 p.m.</i>	
New Student Welcome	May 22, 9:00 a.m.
Memorial Day College Holiday	25-May
Classes Begin	26-May
Schedule Adjustments	May 26 - 27
Last Day to Apply for Summer Graduation	22-May
Last Day to Drop for a Partial Refund	8-Week Session: May 29 10-Week Session: June 1
Independence Day College Holiday	3-Jul
Last Day to Withdraw	8-Week Session: July 7
10-Week Session: July 10	
Last Day of Class/Examinations	8-Week Session: July 21** 10-Week Session: August 4
<i>** July 21 will be scheduled as a Friday make-up day for both sessions.</i>	
Summer Graduation	7-Aug
Total Class Days	8-Week Session: 40 10-Week Session: 50

All dates in this calendar are subject to change

Code of Student Conduct: Academic Dishonesty – You may not deceive any official of the college by cheating on any assignment, exam, or paper. This includes plagiarism, which is the intentional theft or unacknowledged use of another’s words or ideas. Plagiarism includes (but is not limited to) paraphrasing or summarizing another’s words **or works** without proper acknowledgement, using direct quotes of material without proper acknowledgement, or purchasing or using a paper **or presentation** written **or produced** by another. The faculty at A-B Tech **may** also consider presenting as original work a paper written for one class to satisfy a requirement in another class to be academic dishonesty.

Code of Classroom Conduct: Asheville-Buncombe Technical Community College is an institution for adult learning. It is a partnership between instructors with the desire to teach and students with the desire to learn. In order to create an appropriate environment for teaching and learning to flourish, there must be respect for the instructor and fellow students. Listed below are guidelines for classroom behavior which the College has established to ensure that the learning environment is not compromised.

1. Attendance: You are expected to be in class the entire class time. Do not enter late or leave early. Rare exceptions may be excused, particularly under emergency circumstances, but you should be prepared to explain your tardiness to the instructor after class. Likewise, the need to leave early should be explained to the instructor before class.
2. Absences: Inform the instructor in advance, if you know you are going to miss a class. Also, take responsibility for getting missed assignments from other students. Do not expect that you will be allowed to make up work, such as unannounced quizzes or tests, after an absence. Instructors are not responsible for re-teaching the material you missed because of absence.
3. Conversation: Do not carry on side conversations in class.
4. Other Activities: You may not work on other activities while in class. This includes homework for other courses or other personal activities.
5. Internet: In classes where Internet access is provided, you may use the Internet for valid, academic purposes only. You may not use it for open access to other non-academic sites which are unrelated to the course.
6. Sleep: Do not sleep in class.
7. Attitude: You are expected to maintain a civil attitude in class. You may not use inappropriate or offensive commentary or body language to show your attitude regarding the course, the instructor, assignments, or fellow students. Keep in mind that all electronic interactions (e-mail, chats, discussion forums, etc.) are extensions of the classroom and should be treated as such. Unacceptable language and behavior will be addressed as if you were sitting in the classroom.
8. Profanity and Offensive Language: You may not use profanity or offensive language in class.
9. Cell phones and beepers: You may not receive or send telephone calls or pages during class. You are responsible for turning off cell phones and beepers upon entering class.
10. Guests: You may not bring unregistered friends or children to class.
11. Food, Drink, Tobacco Products: You may not have food or drink in class. You may not use tobacco products in the buildings of A-B Tech.
12. Personal Business: You may need to transact personal business with the instructor, asking him or her to sign forms. Plan to do this before instruction begins or after class.

Typically, violations of the Code of Classroom Conduct will be dealt with as minor infractions. However, repetition of minor infractions or other more serious violations of the Code of Student Conduct may lead to removal from the classroom while the matter is resolved and referral to the Vice President for Student Services for disciplinary action.

NETIQUETTE

General

- 1. Understand that typed messages lack cues normally associated with face-to-face conversation.
Without these supporting cues for context, satire or sarcasm can come across in unintended ways.**
- 2. Use parenthetical explanation to explain meanings that might be misunderstood.**
- 3. Do not criticize spelling or grammar but do check your own spelling, punctuation, and grammar.**
- 4. Don't use all capital letters. In the online world, this is the equivalent of shouting and it is difficult to read.**
- 5. All lowercase letters indicate mumbling.**
- 6. Be brief and to the point.**

Subject Lines

- 1. Keep subject lines short.**
- 2. Make subject lines informative by indicating the content of the message.**
- 3. Make subject lines clear and unambiguous.**

Replying

- 1. If you excessively reply to ongoing discussions and include the original message, your messages will be very long and hard to follow.**
- 2. For simple messages, quoting the original message when replying will clarify your response.**
- 3. Using carets to indicate lines of text that are quoted.**

Email

- 1. Unless you are explicitly given permission, don't publicly post email sent to you in private.**
- 2. Recognize that instant delivery of email does not guarantee an instant response.**
- 3. If you are sending information from another source, pay attention to whether the material is copyrighted and cite sources.**
- 4. For important messages, compose a draft in a word processor so you can spell check it.**
- 5. Be careful when addressing emails. One character out of place, or a ".com" suffix when the person's email really ends with ".edu", and your message won't be delivered.**
- 6. If it is going to take considerable time to reply fully, try to acknowledge receipt of a message promptly and let the sender know that you will answer.**

Attachments

- 1. Do not send huge attachments.**
- 2. When you're replying to a message that has an attachment, do not include the attachment again.**
- 3. Avoid sending attached files that lack filename extensions (that's because some computers won't be able to open them).**

Flaming

- 1. Do not flame! Flaming refers to derogatory, abusive, threatening, sarcastic, rude, or otherwise mean-spirited messages directed at people.**
- 2. If a message provokes a negative emotional response, put it away for a while, then reread it and see if you're misinterpreting it. If you don't understand a particular item, ask the sender for clarification before replying to an incorrect conclusion.**
- 3. Messages are not secure. Remember, it's very easy for someone else to forward messages you thought were confidential.**
- 4. Apologize. If there's been a misunderstanding or miscommunication, you can often nip a flame war in the bud by a brief apology.**
- 5. Don't write anything that you won't want other people to be able to see for a long time (posts can be archived for years).**

Discussions

- 1. Lurk before you leap. Lurking is visiting without participating. While it's rude to make a habit of lurking, a little lurking can acquaint you with rules and procedures, help you get the "lay of the land," and prevent embarrassment.**
- 2. Avoid posting non-informative messages on bulletin boards. Chat is more like a telephone, so saying "Me, too!" or "I don't know" is accepted. But on bulletin boards, people don't like to read postings that aren't substantive.**

Chat

- 1. Remember that chat rooms are "logged" (i.e., a record is kept of conversations).**
- 2. Do not disrupt chat rooms by pasting large blocks of text into the input box (thus causing the screen to scroll faster than other users are able to type) or otherwise act in a manner that negatively affects other users' ability to engage in real time exchanges.**
- 3. If you are having a conversation that is off the main topic, please move to another chat room.**
- 4. If you are a fast typist, please pause occasionally to let slower typists contribute to the discussion.**

California State University at Fullerton

Excerpted from Bramucci, Robert. Cal State Fullerton.

Other Information: Additional help in math and related courses is available in the Academic Learning Center, located in Ferguson 112, 114, 116, and 118. The Center will be open from 9:00 AM – 6:30 PM Monday through Thursday, and from 09:00 AM – 1:00 PM on Friday.

Calculator: A graphing calculator is required for this course. The **TI-83**, **TI-84**, or the **TI-86** will be the calculator used by the instructor for instruction purposes. Graphing calculators **TI-89** and **TI-92** may not be used on lab assignments nor exams.

Statement of Right to Make Changes: I reserve the right to make changes in the syllabus. Any changes will be announced in class.

Dear Student,

Welcome to the Mathematics Department!

We look forward to working with you and providing you with the very best education in mathematics.

We are a seven-member team that boasts a combined experience of over one-hundred-fifty years in professional education. We are extremely proud of our services and our accomplishments, and we always strive to maintain the best of quality instruction and as well as adherence to high academic standards and goals. Because of this dedication, we enjoy an excellent academic reputation with the surrounding upper-division colleges and universities in the region. It is a high priority to maintain this reputation, and consequently the value of your degree.

In order to be successful in your Math class and to ensure that other students have the learning environment they deserve, we require that you adhere to the Code of Student Conduct located in your Student Handbook, and on your syllabus. A positive learning environment makes it much easier for any student to achieve their goals.

If it is necessary for you to discuss any personal issue with your instructor, it is imperative that you do so during their office hours or during an out of class appointment. We are happy to meet with you to talk about any issue that is relevant to your participation in class, or your grade in the course. We have appropriate and time-proven suggestions that should help you.

As a student at AB-Tech, it is expected that you to keep up with the class, turn in assignments on time, and take responsibility for your education. The instructor will assist you in every way possible that does not compromise the integrity of the course itself. Our reputation depends on it.

Again, Welcome to AB-Tech and have a great semester!

R. Trent Codd, Jr.; Chairman; AA, BS, BSCS, MA, EASGC; 38 years of experience

Jerry L. Ashe; Instructor; AA, BS, MS; 22 years of experience

Jackie Caldwell; Instructor; BS, MA; 20 years of experience

Karma Crouch; Instructor; BS, MA Ed; 23 years of experience

Valerie Martin; Instructor; AA, BA, MS; 8 years of experience

Tammy Pagan; Instructor; AA, BS, MS; 20 years of experience

Robby Webb; Instructor; BA, MA; 23 years of experience

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Your Acknowledgement

I have been provided access to the course syllabus, understand what is expected of me, and agree with the provision set forth in the syllabus.

Your name

Your student I.D. Number

Your signature

Date