

Math 131 Mathematical Concepts - Calculus

Instructor: Dr. Sherry Scarborough

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Emails: In all correspondence, please include your *name*, your *course number*, and your *section number* in the subject line. Please regularly check your TAMU email, as I often send the class emails.

Web Site: <http://www.math.tamu.edu/~Sherry.Scarborough/>

Office Hours on Class Days: Mondays 3 – 4pm, Tuesdays 1:30–3:15pm, Thursdays 1:30–3:15pm

Special Office Hours before Finals: Wednesday May 5 from 10 – 11:30am

Textbook: Single Variable Calculus: Concepts & Contexts, 4th ed., Stewart (2010). You do not have to buy a text book as you will have access to it via WebAssign, your online homework system (<http://www.math.tamu.edu/ehmwk/>).



Calculator: A TI-83/84 or TI-83/84 Plus graphing calculator is required and no other calculators are permitted. Calculators *must* be reset before and after exams. No sharing of calculators on exams or quizzes. Having any unauthorized programs/applications or the use of any unauthorized type of calculator during exams or quizzes will be considered a case of academic dishonesty and will be reported to the Aggie Honor Council.

Course Description: Math 131: Limits and continuity. Rates of change, slope. Differentiation: the derivative, maxima and minima. Integration: the definite and indefinite integral techniques. Curve fitting. Prerequisites: High school algebra I and II and geometry. Credit will not be given for more than one of MATH 131, 142, 147, 151 and 171.

Class Times

Math 131-504: MWF 12:40 – 1:30pm RICH 114

Math 131-505: MWF 9:10 – 10am RICH 114

Math 131-506: MWF 11:30am – 12:20pm RICH 114

Tentative Exam Schedule: Exam I February 17th, Exam II March 24th, Exam III April 21st

Comprehensive Final Exam Schedule

Math 131-504: Monday May 10 from 10:30am – 12:30pm in RICH 114

Math 131-505: Monday May 10 from 8 – 10am in RICH 114

Math 131-506: Wednesday May 12 from 10:30am – 12:30pm in RICH 114

Grading: The average of your 3 regular exams (15% each) will count as 45% of your grade, your quiz average 15%, your online homework 15%, and your comprehensive final 25%. Due to confidentiality, grades will not be discussed via phone or email, only in person.

Grade cutoffs: A is 90 – 100%, B is 80 – 89%, C is 70 – 79%, D is 60 – 69%, F is 0 to 59%.

Exams: You will need to bring to your exams your Texas A&M student ID, a #2 pencil, TI-83/84 calculator and an eraser. You will also need Scantron form 882E for your comprehensive final exam.

Quizzes: Quizzes will be given in class, and may or may not be announced ahead of time. Please do not ask if we are having a quiz (not in class, not in emails); just always expect and be ready for one. This will keep you prepared for the material. At the *end* of the semester when your final course grade is calculated, 2 of your lowest quiz scores will be dropped before the quiz average is calculated, though your note-card grade will not qualify to be dropped regardless of the grade.

Homework and WebAssign: All online homework will be based in the online system WebAssign.

- Everything you will need to know about creating an account and logging in is available here: <http://www.math.tamu.edu/ehmwk/>; bookmark this web page! First go to the Math 131 link on this page and read the instructions. Also on <http://www.math.tamu.edu/ehmwk/>, notice the important links at the top: *WebAssign Login Page*, *Student Help Request Form*, and *FAQ*.

- At the *end* of the semester when your final course grade is calculated, 2 of your lowest online homework grades will be dropped.
- If you have *ANY* issues with WebAssign (you cannot log on website, it graded a problem wrong, you cannot see graphs, web site crashes, etc.), submit a *Student Help Request Form* found at <http://www.math.tamu.edu/ehmwk/>. This form goes to the online homework gurus in our mathematics department that can help you; please do not email me as I am not the one who can help you. I can certainly help you with any math questions!

Grade Disputes: Once you leave class with any graded paper you accept its grade, unless there is a totaling error. All grade disputes must be dealt with at the time you receive them. If the grade was not totaled correctly, you have one week from when the paper was first returned to the class to get the correction made.

Student ID: You will need to have your Texas A&M student ID with you for ALL classes.

Help Sessions: Help Sessions are a place to see homework-type problems worked and a place to get online homework help. Help Sessions usually start about the second week of school. There is a Help Session link on my Math 150 web page. <http://www.math.tamu.edu/courses/helpsessions.html>

Comment [WU1]:

Comment [WU2]:

Week-In-Reviews (WIR): Weekly reviews will be given by one of our mathematics instructors, Sandra Nite. These include an exam review on the week of your exam. WIR is not held the week immediately after an exam week. On my Math 131 web page are links to Week-In-Reviews for this semester as well as in the past. The WIR starts the second week of school. It is strongly recommended that you seriously work on all of the appropriate WIR problems each week, before attending the WIR.

Make-Up Policy: No make-up examinations or assignments will be given without a university approved excused absence (See the [Texas A&M University Student Rules](#)). An absence for a non-acute medical service or regular check-up does not constitute an excused absence. To be excused you must notify me (acknowledged email or written) prior to date of absence if such notification is feasible. Consistent with Texas A&M Student Rules, students are required to notify their instructor by the end of the second school day after missing an examination or assignment. For injury or illness too severe or contagious to attend class, you must provide confirmation of a visit to a health care professional affirming date and time of visit. The Texas A&M University Explanatory Statement for Absence from Class Form will NOT be accepted. *It is the student's responsibility to schedule a makeup!* Attendance is required in this course.

Math 131 Welcome: Information about the *note card assignment*, as well as other important guidelines, is found at the following web site: <http://www.math.tamu.edu/~scarboro/131spring2010welcome.pdf>.

Policies: Policies pertaining to absences, scholastic dishonesty and final examinations are identical to TAMU regulations. Students with an official excused absence are permitted to make up work only for the dates of the absence. All other assigned work, even that assigned on the excused date, is due as assigned.

Late Policy: No late work will be accepted for written activities, except for the note card assignment. Your note card assignment (read Math 131 Welcome) is due no later than in lecture on Friday February 5th; however it will be accepted late up to class time on Friday February 26th with a 20% late penalty. With a stiff penalty, there may be a brief period of time in which you can submit the online homework late.

Plagiarism: All printed handouts and web materials are protected by U.S. Copyright Laws. Handouts are all materials generated for this course, which include but are not limited to syllabi, assignments, quizzes, examinations, in-class materials, online homework, and anything downloaded from a web page. Because these materials are copyrighted, **you do not have the right to copy the handouts**, unless I expressly grant permission. As commonly defined, plagiarism consists of passing off as one's own the ideas, words, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated.

Academic Integrity Statement: Aggie Honor Code: "An Aggie does not lie, cheat, or steal or tolerate those who do." Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold

the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System. For additional information please visit <http://www.tamu.edu/aggiehonor/>

Students may work together on their homework from the text, unless otherwise directed. Examinations, online homework, and quizzes are to be taken individually.

Disabilities: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit <http://disability.tamu.edu>.

Personal Requests: You are always welcome to come to my office hours; you do not need an appointment. I encourage you to come, ask questions, as often as you would like. Students who come to office hours can get personal attention and help. If you smoke, please 'air out' some before visiting. As a courtesy to all, please mute your cell phones and electronic devices during all classes and office hours. Thanks!

Please Note: While it is critical that you attain the correct answer to a question, you must show correctly, precisely, and accurately its solution (all the steps, labels, explanations, equal signs, models, etc.) in an orderly, clear, concise manner. Where appropriate, circle your final answer. You are responsible for your own learning.

This class covers a lot of material and moves quickly. It is **very** important that you keep up with the homework and do not fall behind. Please do not hesitate to ask questions in class, to come to my office hours, or to send me an email (with your name, course and section in the subject line of your email). My goal is to help you learn; not cram information into your head. If you do not understand the concepts, please ask for help. Do not wait until the day before an exam to try to grasp the material. There are Week-In-Reviews and help sessions regularly, as well as other online resources.

As a courtesy, if you will be using a laptop in class, it must be related to Math 131, and in order to not distract others, please sit on the back row.

Emergencies: On-campus phones: 9-911

Off-campus and cell phones: 911

Tentative Schedule

Week 1: Introduction, 1.1, 1.2

Week 2: 1.3, 1.5, 1.6

Week 3: 2.1, 2.2, 2.3

Week 4: 2.4, 2.5

Week 5: Review, Exam I, 2.6

Week 6: 2.7, 2.8, 3.1

Week 7: 3.2, 3.3, 3.4

Week 8: 3.7, 3.8, 3.9

Week 9: Review, Exam II, 4.2

Week 10: 4.3, 4.6

Week 11: 4.8, 5.1, 5.2

Week 12: 5.3, 5.4, 5.5

Week 13: Review, Exam III, 6.1

Week 14: 6.5, 6.7, 7.1 (as time permits)

Week 15: Review

Homework Problems:

Section	Page	Assignment	Section	Page	Assignment
1.1	21	#1, 3-5, 7-33 odd, 34, 35-45 odd, 47-51 odd, 53-57, 59-71 odd	3.7	226	#3-29 odd

1.2	35	#1-7 odd, 11-15 odd, 18-21, 23-25	3.8	237	#1-25 odd, 27, 29-35 odd
1.3	43	#1-7 odd, 8, 9-23 odd, 25-27, 29-47 odd, 49-51, 53-55, 59-63 odd	3.9	245	#1, 3-5, 7-35 odd
1.5	59	#1-4, 5, 9, 13, 15-19 odd, 20-21, 23, 27-33 odd	4.2	268	#1-21 odd, 22-34, 41-51 odd, 55-59 odd, 63, 65
1.6	69	#1-9 odd, 13-17 odd, 18-19, 21-26, 27-37 odd, 38-39, 41, 43, 47, 49-56, 59-61	4.3	279	#1-21 odd, 27, 29-30, 33-43 odd, 44-45, 57
2.1	94	#1-3, 5, 7-9	4.6	305	#1-5 odd, 11-14, 18-19, 23, 31
2.2	102	#1-5 odd, 6-12, 13-21 odd, 22-24, 25-31 odd	4.8	321	#1-13 odd, 17-43 odd, 47-49
2.3	111	#1-3, 5, 7, 8-25, 33-39, 42	5.1	341	#1-5 odd, 11-17 odd
2.4	121	#3-31 odd, 33-35	5.2	353	#1-11 odd, 17, 19, 27-28, 31-41 odd, 42-43, 45, 51-52
2.5	132	#1-3, 5-13 odd, 15-17, 19-29, 33-35, 39-43, 45, 51-52, 55	5.3	363	#1-21, 31-43 odd, 49-53 odd, 54, 57-59, 61-67 odd, 68, 73
2.6	142	#1-3, 5-41 odd, 42-45	5.4	372	#1-9 odd, 15-25 odd, 30-31
2.7	155	#1-17 odd, 19-25, 34-39, 41-45 odd, 48, 51	5.5	381	#1-5 odd, 6, 7-23 odd, 29-33, 37-41 odd, 42-45, 49-55 odd, 61, 65, 67
2.8	162	#1-21 odd, 24, 25-31 odd	6.1	436	#1-21 odd, 29, 39, 43
3.1	181	#1-33 odd, 43-47 odd, 48-49, 53, 55, 59-65 odd	6.5	463	#1-19 odd
3.2	188	#1-31 odd, 35-49 odd, 51-52	6.7	479	#14-17
3.3	195	#1-13 odd, 19-27 odd, 33-39 odd	7.1	498	#1-15 odd
3.4	205	#1-45 odd, 51-61 odd, 65-71 odd			

Help:

- Bookmark my web page so you will know where to find all important information <http://www.math.tamu.edu/~Sherry.Scarborough/>
- Bookmark my Math 131 web page <http://www.math.tamu.edu/~sherry.scarborough/131topics.html>
- Read the Math 131 first day handout
- Read the welcome note found at <http://www.math.tamu.edu/~sherry.scarborough/131spring2010welcome.pdf>
- Read my class notes and skim the online book before class
- Attend all classes
- Bring your class notes, calculator, pencil, and TAMU student ID to every class
- Do all your graded online homework
- Use the tutorials and practice problems in WebAssign to help you learn
- Ask questions
- Do all your text homework
- Attend my office hours
- Attend help sessions <http://www.math.tamu.edu/courses/helpsessions.html>
- Do the Week-In-Review (WIR) problems and attend the WIR
- Ask me for help with homework problems during office hours
- Read "Success at Math" at <http://www.math.tamu.edu/~jmlinhart/success.html>
- Keep up with the course
- Form study groups and get together regularly
- Get a personal tutor (a list is available outside Blocker 601)
- Contact the Learning Skills Center (845-4427)
- Contact tutoring@aggieculture.tamu.edu
- Contact Services for Students with Disabilities, if needed, at 845-1637