

Course Syllabus
MATH 1220, Section 002, Spring 2018
Calculus II

Instructor: Anna Nelson
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Class Hours: MTWF 10:45am - 11:35am, LCB 219 (Leroy Cowles Building)

Office Hours: To be announced

Text: *Calculus with Differential Equations*, by Varberg, Purcell, and Rigdon (9th edition) For information on purchasing the textbook, go to <http://www.math.utah.edu/schedule/bookInfo/>(\$20-\$40).

- ISBN 13: 978-0-13-230633-1
- ISBN 10: 0-132-30633-6

Calculators: Calculators will not be allowed on exams. They may be used on homework, but you should still write out the details of your computation. It is in your best interest not to become too dependent on your calculator since they will not be allowed on exams.

Prerequisites: At least a “C” or better in (MATH 1210 OR MATH 1250 OR MATH 1270 OR MATH 1311 OR MATH 1310) OR AP Calculus AB score of at least 4 OR AP Calculus BC score of at least 3.

Course information and expected outcomes: Math 1220 is a 4-credit semester course that will cover geometric applications of the integral, logarithmic, and exponential functions, techniques of integration, conic sections, improper integrals, numerical approximation techniques, infinite series and power series expansions, differential equations (continued). Upon successful completion of this course, a student should be able to:

- Compute derivatives and integrals for exponential, logarithmic, hyperbolic functions, and inverse trigonometric functions.
- Integrate integrable functions using integration by parts, u -substitution, trigonometric substitutions, rationalizing substitutions, partial fraction decomposition, and trigonometric identities. This includes knowing which techniques to apply to a given integral.
- Use L’Hopital’s Rule to calculate indeterminate-type limits and also know what limits are the non- indeterminate forms and how to compute those limits.
- Compute improper integrals.
- Understand the difference between an infinite sequence and infinite series and determine if a sequence converges or diverges.
- Determine whether or not an infinite series of numbers converges or diverges using a variety of tests.
- Understand what it means for a Power Series to converge or diverge and be able to find the Taylor Series for a given function. Determine how closely a Taylor polynomial approximates a function using Taylor’s Remainder Theorem.
- Differentiate and integrate functions in polar coordinates..

Canvas: Canvas will be used for posting course announcements, homework assignments, grades, files and any relevant supplementary material. Class notes will also be posted on Canvas. You are also welcome to make use of the Canvas discussion board to discuss course problems or topics. You can access the Canvas page through CIS or by logging in at utah.instructure.com. Students should check the Canvas page regularly for course information and resources. Email notifications and correspondence will be sent to the student’s UMail address ([\[u-number\]@utah.edu](mailto:[u-number]@utah.edu)); this email account must be checked regularly.

Homework: Weekly homework will be due on Wednesdays of each week. Homework will cover material up to and including the previous Friday.

- Your lowest two homework scores will be dropped to create a buffer for any and all types of problems throughout the semester. There will be no exceptions to this rule! No late homework will be accepted.
- Homework must be stapled and is due at the beginning of class, no exceptions.
- For each homework assignment, four homework problems will be selected for grading, each graded out of 5 points.

Quizzes: There will be a total of about 10 weekly quizzes on Fridays, which means there will be a quiz every week of classes except test weeks. The weekly quiz will cover the material presented that week in class. You must be in attendance to take the quiz, however the two lowest quiz scores will be dropped. There are no “make-up” quizzes. Students who miss a quiz will receive a “0” on the missed quiz.

Exams: You will have three midterm exams (50 minutes each). There are no “make-up” exams. Students who miss an exam will receive a “0” on the missed exam. Absence from an exam will be excused only if you can provide verifiable and convincing evidence that you have a significant illness or serious family crisis that will prevent you from attending. Except under extremely unusual circumstances, you must inform me in advance of the missed test. The dates for these exams are fixed, and will be during normal class time in our normal classroom. **Your score on the final exam will replace your lowest midterm score or you will receive a 2% bonus to your final exam grade, whichever results in the highest grade.**

Final Exam: The comprehensive final exam is on **Friday, April 27th, 10:30 am – 12:30 pm** in our normal classroom, LCB 219

Grading Policy: Your grade will be based on:

Homework	20%
Quizzes	10%
Midterm 1	15%
Midterm 2	15%
Midterm 3	15%
Final Exam	25%

The two lowest quiz scores will be dropped. The two lowest homework scores will be dropped. **Your score on the final exam will replace your lowest midterm score or you will receive a 2% bonus to your final exam grade, whichever results in the highest grade.** The instructor retains the right to modify this grading scheme during the course of the semester; students will, of course, be notified of any adjustments.

Grades (Evaluation and criteria): Final letter grades will be determined by overall percentage as follows:

A	93% – 100%	B-	80% – 82.9%	D+	68% – 69.9%
A-	90% – 92.9%	C+	78% – 79.9%	D	63% – 67.9%
B+	88% – 89.9%	C	73% – 77.9%	D-	60% – 62.9%
B	83% – 87.9%	C-	70% – 72.9%	E	below 60%

Some important dates for this class:

January 8	First day of classes
January 15	Martin Luther King Jr. Day (no class)
January 19	Last day to drop (delete) classes
February 2	First midterm exam (in class)
February 19	Presidents’ Day (no class)
March 2	Second midterm exam (in class), last day to withdraw from classes
March 19–23	Spring break (no class)
April 6	Third midterm exam (no class)
April 24	Last day of this class
April 27	Final exam

ADA Statement: The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability and Access, 200 S. Central Campus Dr., Rm. 162. CDA will work with you and the instructor to make arrangements for accommodations. All information in this course can be made available in alternative format with prior notification to the Center for Disability and Access.

Tutoring: The Rushing Math Center offers free drop-in tutoring, a computer lab, and study 2 areas for undergraduates. The Rushing Student Center is adjacent to the LCB and JWB. The hours for the Spring semester are: 8 am – 8 pm Monday to Thursday and 8 am – 6 pm on Friday. The tutoring center will open the second week of classes.

Student responsibilities: All students are expected to maintain professional behavior in the classroom setting, according to the Student Code, spelled out in the Student Handbook. You have specific rights in the classroom as detailed in Article III of the Code. The Code also specifies proscribed conduct (Article XI) that involves cheating on tests, collusion, fraud, theft, etc. Students should read the Code carefully and know you are responsible for the content. According to Faculty Rules and Regulations, it is the faculty responsibility to enforce responsible classroom behaviors, beginning with verbal warnings and progressing to dismissal from class and a failing grade. Students have the right to appeal such action to the Student Behavior Committee. <http://regulations.utah.edu/academics/6-400.php>

Classroom Social Equity: I strive to be kind, ethical, fair, inclusive and respectful in my classroom and expect students to behave likewise. In this regard, I have these requests of you, as my students:

- Please inform me of whichever pronouns you prefer me to use for you. I will put great effort into honoring your request and ask that you correct me if I happen to make a mistake.
- Please do tell me, discreetly, if you have any sort of anxiety disorder, TBI, PTSD, C-PTSD, or any other challenge that would cause psychological harm to you by me calling on you in class. I want students to feel a little uncomfortable and stretched during class, while working on problems as a large group, but I don't want to cause any human being harm. So, please just tell me if that is the case for you and I will confidentially accommodate your request.
- If your preferred name is different than your legal first name (the preferred name you chose does indeed show up in CIS on my roll sheet, but not yet in Canvas), please log into Canvas and go to Account (on far left)–Settings and change your Display Name to be the name you prefer to be addressed by. This will help me to address you correctly.

Class policies:

- I reserve the right to modify the class structure and syllabus at any time but I will notify you if and when any changes are made
- Please silence your technology at the start of class. If you are repeatedly disrupting the learning environment, you will be asked to leave.
- If an emergency arises that prevents you from making it to an exam or turning in a homework it is your responsibility to communicate that information to me as soon as possible. I will do my best to accommodate any situation that comes up.
- If you are struggling with a concept please come talk to me or visit the tutoring center as soon as possible. I am more than happy to meet with you outside of my office hours if my schedule permits it.
- I encourage you to work with others on the homework but anything that you turn in must be your own work.
- Regrade requests can only be made the class after the homework/quiz/exam was returned and in writing with an explanation why more credit is due.