

# Math 1100

Spring 2018

<b>Instructor:</b>	Dawei (David) Wang
<b>Class Time and Place:</b>	9:40 -- 10:30, Mondays, Wednesday and Fridays In JFB B-1
<b>Office Hours:</b>	TBA
<b>Office Location:</b>	JWB 118
<b>Email address:</b>	David.Wang@utah.edu
<b>Textbook:</b>	Mathematical Applications for the Management, Life and Social Sciences, 8th Edition, by Harshbarger & Reynolds <b>ISBN 13: 978-0-618-65421-5</b> <b>ISBN 10: 0-618-65421-6</b>
<b>Course Information:</b>	Math1100, Business Calculus, is a 3-credit semester course.
<b>Prerequisite:</b>	At least a C grade in Math1090 (Business Algebra) OR Math1050 (College Algebra) OR in Math1080 (Precalculus) OR Math1210 (Calculus 1) OR an Accuplacer score of 80 on the College Level Math (CLM) test OR at least an ACT Math score of 28 OR at least SAT Math score of 630.
<b>Course Description:</b>	Differentiation, maximization and minimization of functions, marginal analysis and the optimization of constrained functions, integration and applications. Not for students who have completed more than one semester of calculus.

## Expected Learning Outcomes:

Upon successful completion of this course, a student should be able to:

1. Have a basic conceptual understanding of limits.
2. Know how to differentiate and integrate polynomial, rational, logarithmic, and exponential functions.
3. Use derivatives to gather information about the shape of the curve and use that information to graph the curve  $y = f(x)$ , for polynomial, logarithmic, exponential and simple rational functions.
4. Understand how to use differentiation to optimize functions for business applications, such as maximizing profit examples.
5. Use integration to find area under curves and for business examples such as average value.
6. Take partial derivatives of basic functions of two variables.

- Grading:** The grades will be calculated as follows:
- Homework 10%
  - Quizzes 10%
  - Midterm 20%
  - Midterm 20%
  - Midterm 10%
  - Final Exam 30%
- (Note: There will be 3 midterms. Your lowest midterm score will count for 10% of your grade and your top two midterm scores will each count for 20% of your final grade.)
- Homework:** I will collect homework on Mondays of each week. All of the homework assigned from sections covered in the previous few days is due at that time.
- Each section of homework will be worth ten points. For example, if you have three sections of homework assigned, then that homework set is worth a total of 30 (raw) points.
  - The homework set **MUST** be stapled together with the corresponding cover sheet as the first page. (I will provide the cover sheets in class.) A homework set turned in without being stapled together or without a cover sheet will not be counted!! Please do not come to class hoping that I or someone else will have a stapler. Be prepared when you arrive.
  - **I will accept 10 late homework sections, up to two weeks late, throughout the semester for full credit. I will not accept homework more than two weeks late.** I accept these late homework sections to allow for illness, oversleeping, hectic schedules, etc. Do not ask for special favors with regard to the homework policy, unless the circumstances are extraordinarily severe, because my response will not be in your favor. Also, it is not necessary nor recommended that you tell me why your homework is late. This policy is meant to be flexible enough to cover all reasons.
- Weekly Quizzes:** Every Wednesday (except the first week and test weeks) there will be a short quiz, which covers materials from the previous week. Three worst quiz grades will be dropped, and there will be no makeup quiz. The quiz will be open-book and you are allowed to discuss with others.
- Midterms:** There will be three one-hour midterm exams throughout the semester, 2/7, 3/7 and 4/11, all on Wednesdays. They will be during normal class time, in our usual classroom.
- Final Exams:** The final exam for this class is comprehensive.  
Wednesday, May 2, 2018, 8:00 -- 10:00 am, JFB B-1.
- Online Grades:** I will put your grades online on Canvas. You can get there easily from the main University of Utah website [www.utah.edu](http://www.utah.edu). To log in, you use the same student id and password that you use for Campus Information System. I do my best to update the grades on a regular basis and keep everything accurate. However, I would advise you to check your grades often to make sure there were no data entry mistakes. I'm always happy to correct any mistakes I've made. You just need to let me know about them.
- Calculators:** You may find it helpful to have a graphing calculator for your own personal use. However, if I allow calculators on exams or quizzes, I will only allow scientific calculators (no graphing or programmable calculators will be allowed ever). Most of the time, you will not have use of a calculator on exams and quizzes. This will be discussed more in class with each quiz and test.

- Grading Scale:** Although I'm not philosophically opposed to curving grades, I find it's rarely necessary. The grade scale will be the usual:  
A (93-100), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79),  
C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), E (0-59).  
If I do need to curve the grades, I will simply shift everything down by a few points (whatever is necessary).
- Tutoring Lab:** T. Benny Rushing Mathematics Student Center, Room 155  
(adjacent to JWB and LCB)  
M - Th 8 a.m. - 8 p.m.  
F 8 a.m. - 6 p.m.  
(closed Saturdays, Sundays and holidays)  
They are also offering group tutoring sessions. If you're interested, inquire at the Tutoring Lab. <http://www.math.utah.edu/ugrad/tutoring.html>
- Private Tutoring:** University Tutoring Services, 330 SSB (they offer inexpensive tutoring).  
There is also a list of tutors at the Math Department office in JWB233.
- Computer Lab:** Also in the T. Benny Rushing Mathematics Student Center, Room 155C.  
M - Th 8 a.m. - 8 p.m.  
F 8 a.m.- 6 p.m.  
Link to computer lab is <http://www.math.utah.edu/ugrad/lab.html>
- 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 & Access (CDA), 162 Olpin Union Building, 581-5020 (V/TDD). CDA will work with you and me to make arrangements for accommodations. All information in this course can be made available in alternative format with prior notification to CDA.
- Student Responsibility:**  
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 ethical, kind, fair, inclusive and respectful in my classroom and expect students to behave likewise. In this regard, I have these requests of you, my student:
1. 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 do happen to make a mistake.
  2. 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 definitely 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.

3. 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 greatly to know students' names, and to address you correctly when responding to Canvas quiz comments.

**Additional Policies:** I reserve the right to change my policies stated in this syllabus at some point in the semester. If I do make a change to a policy, I will announce it in class and send the change in email.