

# Math 2413 Calculus I

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## PROFESSOR CONTACT INFORMATION:

**Professor:** Dr. Vinh Dang

**Office Phone:** 281-618-5684

**Office:** WINSHIP 115 T

**Office Hours** M-Th: 11:45-12:30pm.

**E-mail:** [vinh.x.dang@lonestar.edu](mailto:vinh.x.dang@lonestar.edu)  
(best way to contact me)

## WELCOME TO:

**Term and Year:** Summer 2018

**Course Title:** MATH 2413

**Course Subject:** CALCULUS I

**Course Sections:** 1701, 1702

**Class Days & Times:** M-Th 7:30 - 11:40am

**Class Room Locations:** Winship 177

**Credit Hours:** 4

## COURSE OVERVIEW:

Math 2413 is designed to present the basic techniques of differential and integral calculus and some of their applications. Calculus I emphasizes limits, continuity, derivatives of algebraic, trigonometric, natural exponential, and natural logarithmic functions. Applications such as curve sketching, optimization, and related rates are discussed. Following this is an introduction to integral calculus including Riemann Sums, The Fundamental Theorem of Calculus and the area between two curves.

The main goals of this class are: 1) Students will gain proficiency in the essentials of the subject and develop strong problem solving skills. 2) Students will explore the applications of calculus in science and engineering, and learn to communicate mathematical ideas (both verbal and written) clearly and effectively.

## GETTING READY:

**Prerequisites:** Precalculus (Math 2412). Engl 0305 or 0365 or higher level course or placement by testing

## Required Materials:

**Textbook: Calculus – Volume 1 – Openstax**

The book can be access freely online at:

<https://openstax.org/details/calculus-volume-1>

(Please download the pdf version of the book)

**WebAssign Online Homework System**

Please register at <http://webassign.net/> by the end of Thursday, July 19

The class key is: **lonestar.northharris 9093 8236**

If you're waiting for financial aid, 7 days of temporary course access without payment may be available.

## Course Website:

<http://apps.lonestar.edu/blogs/vindang/summer-2018/math-2413-1701-calculus-i-730am/>

## INSTRUCTOR GUIDELINES AND POLICIES:

### FINAL GRADE CALCULATION:

WebAssign Homework	15%
3 Regular Exams	60% (3 exams @ 20% each)
Comprehensive Final Exam	25%

### GRADING POLICY:

90 – 100: A; 80 – 89: B; 70 – 79: C, 60 – 69: D, Below 60: F.

**If any of your exam scores is below 50%, you cannot receive a grade of “A” for the course, no matter what your percentage works out to be. THIS APPLIES EVEN IF AN EXAM SCORE IS REPLACED BY THE FINAL EXAM SCORE.**

### ATTENDANCE POLICY:

- Your attendance is critical. **I reserve the right to drop you after 3 or more absences. Attendance is taken daily usually until the withdrawal deadline.**
- If you anticipate missing class, please contact me in advance of your situation.
- If you are more than 10 minutes late, it is counted as an absence. Arriving late to class or leaving the classroom in the middle of lecture is disrespectful and disruptive to your classmates and professor. Unless prior arrangement is made with me, I will count you as being absent if you disrupt my lecture by either coming more than 10 minutes late or leaving in the middle of my lecture. I reserve the right to drop students who arrive late or leave in the middle of my lectures for three or more consecutive times.

### HOMEWORK:

- The only way to learn mathematics is to DO mathematics. The homework assignments is designed to help you understand the essential material and develop your problem solving skills.
- The homework is assigned using WebAssign to provide you with valuable online resources and immediate feedback. The due date for each homework assignment is posted on WebAssign. It is essential that you solve these problems to keep up with the fast pace of the course. Immediately work on the online homework for a section as soon as we finish covering that section in class.

- You are responsible for knowing which assignment is due when and complete the assignment before the due date. You must complete each homework assignment by the due date. Otherwise, you will receive a zero. **Due dates for homework assignments will NOT be extended under any circumstances.** However, to accommodate for unexpected circumstances, your lowest 3 homework scores will be dropped in calculating your average homework grade.
- **I reserve the right to drop you from the class after 4 or more zero homework assignments.**

#### **EXTRA CREDIT:**

Although the homework assignments are online, I strongly encourage you to carefully and neatly write down all the steps of your solution to every problem on paper. Be neat, accurate and organized and always show quality work on all the exercises in the assignments. You can earn extra credit for doing so in the following way: On the date of each test, I will collect your notebook or paper and grade your written solutions to the homework assignments corresponding to that test for completion. **If your work is satisfactory, you will earn an extra 1% for your overall percentage of the class.** So in total, you can earn up to 4% for your overall percentage of the class.

For your work to be marked as satisfactory, you must

- Either do your homework assignments in a notebook (just-for-homework-notebook) or do them in standard size paper and staple all the pages together.
- Solve all the exercises on each assignment and show all your work. If you miss just one exercise from an assignment, you will not get the extra credit.
- Clearly label the title of the assignment and label the exercises. All your solutions must be clearly labeled and in order. Write all your work neatly for each exercise.
- Demonstrate that you have made serious attempts to work on ALL the exercises assigned. The answers need not be correct but you need to show substantial work on the exercises.
- Turn in each extra credit at the beginning of class on the date of each exam.

#### **REGULAR EXAMS/FINAL EXAM MAKE-UP POLICY:**

- No make-up exams will be given. I do understand that schedules get hectic. Thus, if you know in advance that you will need to miss an exam, let me know and I will try to make an arrangement. The following guidelines will apply:
  - You must notify me both in person and via email.
  - You must notify me at least one week prior to the exam date.
  - If you wish to take the exam, you must take it before the regularly scheduled time.
  - Notice that a panicked cellphone call from the freeway on the morning of the exam does not fall into this category. Such an event is covered below.
  - Notice that asking me several days (or weeks or months) after the exam does not fall into this category. Such an event is covered below

- I also understand that unforeseeable events can occur. Hence, I will replace the lowest of your exam#1-3 scores with the score you make on the final exam, provided the score on the final exam is higher than your lowest regular exam scores. If you miss an exam, you will simply have your score from the final substituted for the missing score. The following guidelines will apply:
  - The final exam will not be replaced. You must take the final.
  - If you miss 2 exams, only one will be replaced.
- You will have 3 regular exams and a final. Scientific or Graphing calculators (such as TI-83 or TI-84) will be allowed on exams. You are responsible for bringing your own calculator to the exams and for knowing how to use it. **Calculators with typing keypads such as the TI-Nspire are NOT allowed.**
- You are allowed a single 3" by 5" cheat sheet on each exam. The cheat sheet must be handwritten and there will be no sharing or exchanging of cheat sheets during the exam. You must turn in your cheat sheet with your completed exam, and do not expect that the cheat sheet will be returned to you.

#### USE OF PERSONAL ELECTRONIC EQUIPMENT IN CLASS:

- **Text messaging:** Out of courtesy to your classmates and your instructor, **text messaging is NOT allowed in this class. You may be asked to leave the classroom.**
- If you must have an electronic device turned on for emergency contact purposes, please set it in vibration mode. Then, if you receive a call, you may excuse yourself from class to conduct your business in the hall. You may then return to class when your business is completed.
- I encourage you to bring your laptop to class but only use them during homework time. Use of any electronic devices that can access the internet during lectures is prohibited and students who do so may be asked to leave the classroom.
- During regular exams and the final, you must turn off all your laptops, PDA's, ipads, etc. and put them in your backpacks or purses and put your backpacks or purses in the front of the class.
- **During regular exams and the final, you must turn off your cellphones and put your cellphone(s) in front of you, on the table. If you touch your cellphone(s) during an exam, you will receive a zero on the exam regardless of whether you use it or not. This is absolutely non-negotiable. Every time your cellphone(s) ring during an exam, five (5) point(s) will be deducted from your exam.**

#### BEHAVIOR:

**I have zero tolerance for disrespectful behaviors and disrespectful language in class, during my office hours or in emails.** Students who engage in such behaviors will be removed from the classroom or dropped from the class, depending on the circumstances. I will also remove any individual from the lectures/ discussions and/or the course who is deemed by me and/or others to be disrupting the educational process. This is a fast-paced course and there are a lot of material to cover. Hence, I will spend most, if not all, of class time to lecture on the important concepts, some problem solving techniques and examples. If you have homework questions, policy questions, or clarification questions on previous material, ask them during homework time or come to my office during my office hours and I

will be happy to answer them. On the other hand, I welcome and encourage you to answer the questions and exercises that I pose during my lecture.

**READING THE BOOK:**

The textbook has thorough explanations and numerous interesting and important examples, clearly worked out. Therefore, I strongly recommend you read the sections that we are going to cover in class before coming to class. That way, we can use class time more effectively to go deeper into the intricate details of the material, concepts and techniques and discuss the projects and the interesting questions that you might have about the material.

**WITHDRAWAL POLICY:**

Withdrawal from the course after the official day of record and prior to “W” Day, (November 11<sup>th</sup>) will result in a final grade of “W” on your transcript. Instructor approval is necessary if you want to withdraw after official day. No credit will be awarded for a course earning a “W.” If you stop attending class, you must withdraw at the registration office prior to “W” day. If you stop attending class and do not officially withdraw, you will receive an “F” for the course.

YOU, THE STUDENT, ARE RESPONSIBLE FOR ENSURING THAT:

- (A) YOU ARE PROPERLY ENROLLED IN THE COURSE AND, SHOULD YOU DECIDE TO,
- (B) YOU ARE PROPERLY WITHDRAWN FROM THE COURSE

**SIX DROP RULE:**

Students who enrolled in Texas public institutions of higher education as first-time college students during the Fall 2007 term or later are subject to section 51.907 of the Texas Education Code, which states that an institution of higher education may not permit a student to drop (withdraw with a grade of “W”) from more than six courses, including courses that a transfer student has previously dropped at other Texas public institutions of higher education that have already been counted against their six drop limit. Each student should fully understand this drop limit before you drop any course. Please see a Counselor or Advisor in our Student Services area for additional information and assistance.

**Keep records of all work** (including test scores) at least until you have received your grade from the admissions office following completion of the course. If you believe an error exists, communicate no later than ten days after the start of the next session / semester.

**ACADEMIC INTEGRITY:**

The Lone Star College System upholds the core values of learning: honesty, respect, fairness, and accountability. The system promotes the importance of personal and academic honesty. The system embraces the belief that all learners – students, faculty, staff and administrators – will act with integrity and honesty and must produce their own work and give appropriate credit to the work of others. Fabrication of sources, cheating, or unauthorized collaboration is not permitted on any work submitted within the system.

The consequences for academic dishonesty are determined by the professor, or the professor and academic dean, or the professor and chief student services officer and can include but are not limited to:

1. Having additional class requirements imposed,
2. Receiving a grade of zero or “F” for an exam or assignment,
3. Receiving a grade of “F” for the course,
4. Being withdrawn from the course or program,
5. Being expelled from the college system.

**STUDENT BEHAVIOR EXPECTATIONS:**

Students are expected to conduct themselves appropriately while on College property or in an online environment. Students may receive disciplinary action up to and including suspension, if they violate System or College rules, disrupt classes, or interfere with the opportunity of others to obtain an education. Students who pose a threat to the safety of others will be subject to immediate withdrawal from the classroom, campus environment, and/or online environment, as well as face subsequent criminal charges, as appropriate. Please refer to the Student Code of Conduct located online at <http://www.lonestar.edu/student-responsibilities.htm> for additional information.

#### **AMERICANS WITH DISABILITIES ACT STATEMENT:**

Lone Star College is dedicated to providing the least restrictive environment for all students. We promote equity in academic access through the implementation of reasonable accommodations as required by the Vocational Rehabilitation Act of 1973, Title V, Section 504 and the Americans with Disabilities Act of 1990 (ADA) which will enable students with disabilities to participate in and benefit from all post-secondary educational activities.

#### **CAMPUS SAFETY AND SECURITY:**

Lone Star College System is committed to maintaining the safety of the students, faculty, staff, and guests while visiting one of our campuses. See <http://www.lonestar.edu/safety-nh.htm> for details. Register at <http://www.lonestar.edu/12803.htm> to receive emergency notifications. In the event of an emergency, contact the police at 5911.

#### **COMPUTER VIRUS PROTECTION:**

Computer viruses are, unfortunately, a fact of life. Using flash drives on more than one computer creates the possibility of infecting additional computers and flash drives with computer viruses. This exposes college computers, personal computers, and any other computers to potentially damaging viruses. The college has aggressive anti-virus procedures in place to protect its computers, but cannot guarantee that a virus might not temporarily infect one of its machines. It is your responsibility to protect all computers under your control and use and ensure that each flash drive you use, wherever you use it, has been scanned with anti-virus software.

#### **EQUAL OPPORTUNITY STATEMENT:**

It is the policy of the Lone Star College System to provide equal employment, admission and educational opportunities without regard to race, color, creed, national origin, gender, age, veteran's status, sexual orientation, or disability.

Lone Star Colleges strive to provide an excellent learning environment free from harassment or intimidation directed at any person's race, color, creed, national origin, gender, age, veteran's status, sexual orientation, or disability. Any form of harassment will not be tolerated.

#### **FERPA:**

The academic, financial, and non-directory information on your student account is confidential and protected by the Family Educational Rights & Privacy Act (FERPA). LSCS cannot release certain information to another person without your written authorization. The Authorization to Release Student Information Form can be found at [http://www.lonestar.edu/departments/admissions/ARC-011\\_FERPA\\_Privacy\\_Request.pdf](http://www.lonestar.edu/departments/admissions/ARC-011_FERPA_Privacy_Request.pdf).

#### **INTERNET AND EMAIL:**

LSCS provides computing and network resources. You are encouraged to use the computers, software packages, and electronic mail (e-mail) for educational or System-related activities and to facilitate the efficient exchange of useful information. The equipment, software, and network capacities provided through the district computer services are the property of the System. Use of the equipment and

networks is to comport with the policies and procedures of the System and access may be denied to any student who fails to comply with the System's policies and procedures regarding its use.

Access to the System's e-mail and similar electronic communications systems are a privilege and certain responsibilities accompany that privilege. All users are expected to demonstrate the same level of ethical and professional manner, as is required in face-to-face or written communications. Threatening, anonymous, or forged messages will be treated as a violation of this policy.

**SOFTWARE PIRACY:**

Law strictly prohibits unauthorized copying of software purchased by Lone Star College for use in laboratories. Lone Star College administration will take appropriate disciplinary action against anyone violating copyright laws.

**CAMPUS CARRY**

The Texas Legislature enacted campus carry by passing Senate Bill 11, effective at LSC on August 1, 2017. Senate Bill 11, known as the "Campus Carry" law, amends Texas law to allow license holders to carry concealed handguns on college campuses. To carry a concealed handgun on LSC campuses, an individual must have a valid License to Carry issued by the Texas Department of Public Safety.

LSC has established rules and regulations regarding enforcement of Campus Carry. Lone Star College prohibits concealed carry in some areas of LSC campuses. For more information about Campus Carry, visit the LSC Campus Carry website at <http://www.lonestar.edu/campuscarry>.

**RESOURCES:**

Math Lab Tutoring: Students can get free help from tutors in MAC center (across the hall from the math office Win 115). No appointment is necessary and the Lab is staffed with a tutor or tutors during all the hours it is open.

Rhonda Cannon, Counselor for Math and Natural Sciences, is available in Winship 115G to assist you in meeting your academic, career, and personal goals.