CLASS MODE: 80% in person and 20% asynchronous.
In person time and location: MTWTh 10:30am-12:20pm MLC-113
Asynchronous time: Students are required to do weekly section quizzes, Canvas discussions, and additional classwork. Canvas course will be open for students to access on the first day of class.

Instructor: Vinh Kha Nguyen
How to contact instructor: nguyenvinh@fhda.edu or Canvas Inbox (preferably)
Allow the instructor 24 hours to reply to a Canvas message, email, or comment.
Allow the instructor 72 hours to grade and comment on the exams and other assignments after their due dates.

Office hours: M,T,W,Th 9:30-10:00am in S-76D
W, Th 2:30-3:20pm on Zoom (see Canvas course for zoom link)

Textbook: CALCULUS: EARLY TRANSCENDENTALS, 9th edition by James Stewart. An eText or .pdf textbook is ok to use, get access to eTextbook instantly for less than $50.
https://www.cengage.com/c/calculus-early-transcendentals-9e-stewart/9781337613927PF/

Required Materials: Textbook and a calculator

Grade is composed of homework, quizzes, discussions, exams, and final.

0-59.99% F	70-76.99% C	80-82.99% B-	90-92.99% A-
60-69.99% D	77-79.99% C+	83-86.99% B	93-100% A
		87-89.99% B+	

homework	quizzes	discussions	exams	final	total
70pts	110pts	20pts	180pts	120pts	500pts

Homework: each hw and due date are posted on Canvas. Late homework receives 0 points.
Discussions: each discussion and due date are posted on Canvas. Missed discussion receives 0 points.
Quizzes**:** each quiz and due date are posted on the course Canvas. *Missed quiz* receives 0 points.
Exams: each exam and due date are posted on the course calendar and must be taken in class in person. All exams are comprehensive, focusing on the knowledge and skills students have developed throughout the course. *Missed exam* receives 0 points.
Final: comprehensive and given at 9:15am-11:15am on Th 12/11 in the classroom. There is no make-up for final exam.

If student notices that the instructor made an error on the grading, the student is responsible to inform the instructor within a week of the date of the exam/quiz. Otherwise, the student's score on the exam/quiz will be unchangeable.

Makeup Policy: No makeup exams are available. Student must notify the instructor in advance of a missed exam to use the following makeup policy.

Only 1 missed exam due to an excused absence or emergency will be covered by the final exam (equivalent percent).

Exam procedure/policy:
- Each exam is 90 minutes, and there is no dropping lowest exam score.
- The Final Exam is 2 hours. (see course calendar for detail)
- Make sure you have fully studied and prepared before you take each exam. (see Canvas Modules for outlines)
- **All exams must be taken in class in person.**
- **No calculator, phone, and restroom break are allowed during quizzes and exams.**

Academic Dishonesty: Students will get 0pt on the related assignments if:
- Cheat on exams and assignments.
- Copy other's work as their own.
- Only include the final answer, but do not show any work or offer any explanation.
- Alter work on exam/quiz after it has been graded to deceive the instructor.
- **Sharing/Uploading instructor's exams or a part of the exam online for others to view will result in a failing grade.**

Repeated academic dishonesty will result in a failing grade in the course. Moreover, all academic dishonesty instances will be reported to the college!

Time Commitment: As stated in the De Anza College course catalog, students are expected to spend at least 5 hours each week participating in class lectures and class activities. Students are also expected to spend at least 10 hours each week doing homework and studying.

Grade improvement: This class is rigorous, so it can be fast-paced and challenging quite often during the semester. The only way to build confidence is through practice and more practice. Other strategies to improve grade: take detailed notes, ask questions when in doubt, work with classmates during group work, form study group, do hw sooner rather than later, seek help when needed, understand rather than memorize, prioritize tasks, avoid multi-tasking while studying, etc. **If you are interested in improving your grade, please spend more time studying and doing the homework.**

Campus tutoring, additional assistance, and Internet resources:

- On campus tutoring in S43: https://www.deanza.edu/studentsuccess/mstrc/
- Online tutoring: https://www.deanza.edu/studentsuccess/onlinetutoring/
- Student Services: https://www.deanza.edu/services/
  Disability Support Service, EOPS, Veterans, CalWORK, Foster Youth, Food Pantry, Health Services, etc.
- The Internet: Youtube lecture video, Khan Academy, etc.

Student Responsibilities:

- Read and follow the syllabus carefully.
- Participate in lectures, take notes, and study problems on the note before working on homework.
- Read the textbook for more examples.
- Complete and submit all assignments on time.
- Study and prepare for quizzes and exams.
- Behave as an educated and civilized individual and be held accountable for your actions.

Attendance: Students are expected to attend lectures in person and complete all weekly assignments on Canvas. If a student misses a week of class both in person lectures and weekly assignments, the student may be dropped from the course.

Withdrawal/Drop Policy: It is the ultimate responsibility of the student to drop the class. Do not rely on the instructor to drop. A student who stops working on assignments and fails to withdraw by the deadline will get a grade FW.

Expected Student Conduct: A student who is disruptive will be asked to leave the class. A student who refuses to leave the room will be dropped from the class and will be reported for further action. During the quarter, if you have any questions about the course policies, you will be first referred to this syllabus. Please make sure you keep a copy. You can find Foothill-De Anza College Code of Conduct at https://www.deanza.edu/student-development/conduct.html

Accommodation: Students who need additional accommodation, due to learning disability or some other reason, please contact the instructor during the first two weeks of class to discuss your options. Disability Support Services determines accommodations based on appropriate documentation of disabilities. DSS is located in Student Community Services building room 141, and their phone number is (408) 864-8753.

All students registered for this course will be expected to uphold the following values:
We strive to establish a class atmosphere that is welcoming and inclusive so that students may bring their authentic selves and work to reach their potential. We recognize the value and individuality that each student brings – our learning experience becomes all the richer when we hear from different perspectives. As such, we support all students equally, without regard to race, color, religion, gender, gender identity or expression, sexual orientation, national origin, genetics, disability, age, or veteran status.

Course description: This course explores the fundamentals of integral calculus such as techniques of integration, applications of integration in area, volume, arc length, surface area, work, fluid force, moment of mass, probability, etc. and an introduction to differential equations.

Course SLOs:

- Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.
- Formulate and use the Fundamental Theorem of Calculus.
- Apply the definite integral in solving problems in analytical geometry and the sciences.

Tentative Course Calendar

M	T	W	Th
9/22 Syllabus&Canvas 5.1 Area/Distance	9/23 5.2 Definite Integral	9/24 5.2 Integration by Limit of Riemann Sum	9/25 5.2 Integration by Interpreting Areas
9/29 Hw#1 due 5.3 Theorem of cal	09/30 5.4 Indefinite Integral	10/01 5.5 U-substitution	10/02 5.5
10/06 7.1 Integration by Parts	10/07 7.2 Integrals of trig functions	10/08 7.2 Integrals of trig functions	**10/09 Hw#2 due** **EXAM#1**
10/13 7.3 Trig sub	10/14 7.3	10/15 7.4 Partial fraction	10/16 7.4
10/20 Hw#3 due 7.5 Strategy of Integration	10/21 7.6 Integration w technology 7.7 Approximate integrals	10/22 Review on Indeterminate Forms and L'H Rule	10/23 7.8 Improper Integrals
10/27 6.1 area b/w 2 curves	10/28 6.2 disk/washer	10/29 6.2 volumes by cross sectional areas	**10/30 Hw#4 due** **EXAM#2**
11/03 6.3 Shell	11/04 6.3	11/05 8.1 arc length	11/06 8.2 surface area
11/10 Hw#5 due 10.2 arc length of parametric curves	11/11 HOLIDAY	11/12 10.2 surface area of parametric curves	11/13 6.4 work on lifting and spring
11/17 6.4 work on pumping out liquid	11/18 6.4	11/19 6.5 average value	**11/20 Hw#6** **Exam#3**
11/24 8.3 Hydrostatic force	11/25 8.3 Center of mass	11/26 8.5 Probability	11/27 HOLIDAY No class
12/01 9.1 Differential Equations	12/02 9.2 Directional Field and Euler's Method	12/03 9.3 Separable DE	12/04 Catching up
12/08 **Hw#7 due**	12/09	12/10	**12/11** **FINAL EXAM** **9:15am-11:15am**

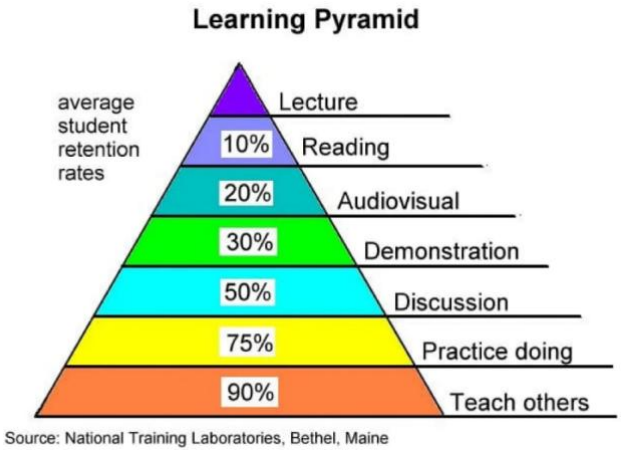
10/05 Last day to add/drop a class without W
10/06 Census
11/14 Last day to drop a class with W
12/08-12/12 Final Exam week, no lecture. Show up to class during a specific day and time to take the final exam.

Math 1B Homework
(see Canvas for due date, scan and upload files in .pdf format)

- Homework is graded on completeness and neatness, see tentative course calendar for due date.
  - Must show work for each problem. Hw without show work will be -1pt.
  - Submit one file per section. If not, hw will be -1pt.
  - Name each file to match with the hw description. If not, -1pt.
  - Deduct points from each missing problem depending on the amount of problems in each hw.
- Why should students care about showing work?
  - **Practice makes confidence**
  - **Help to prepare for quizzes and exams**
- Students are responsible to do all homework and submit the work on time,
  - Late hw gets a solid 0pt, so do not submit late hw.

NOTE: To scan and upload hw on Canvas with your phone, I recommend the free Adobe Scan app.
It is ok to write your hw on an ipad or tablet and convert it to .pdf files to upload on Canvas.

Hw#1
5.1 #1,5,(9),13 pg.381-382
5.2 #23,29,31,41,43,45,63 pg.395-397
Hw#2
5.3 #(9),(11),(15),17,25,29,33,35,37,41,47,49 pg. 406-407
5.4 #5,7,11,13,15,17,21,23,41,45,49,51,(59),(61),(73),(79) pg. 415-417
5.5 #(1),(3),(5),(7),9,11,13,15,17,19,25,41,59,61,63,65,67,(85) pg. 425-427
7.1 #5,7,9,13,15,21,29,35,39,43,(45),(47) pg. 490-491
Hw#3
7.2 #1,5,9,11,15,17,21,23,35,37,43,(45),(49) pg. 498-499
7.3 #9,11,15,17,19,23,27,29,31,35 pg. 505-506
7.4 #11,15,21,25,27,31,41,43,(51),(53),(55) pg. 515
Hw#4
7.5 #9,13,15,17,19,25,33,41,43,45,(57),(59),(63),(71),(77),(85),(87) pg. 522-523
7.7 #3,7,15,17,19,29,33,35 pg. 539-540
7.8 #1,5,7,9,11,13,17,29,43 pg. 549-550
6.1 #19,21,23,25,27,(57),(69) pg. 443-445
Hw#5
6.2 #11,13,15,17,21,25,27,(57),(60),61 pg. 456-457
6.3 #9,11,15,17,25,27,53,55,57 pg. 465-466
8.1 #9,15,21,23,33 pg. 565
8.2 #9,11,13,17,41 pg. 573-574
Hw#6
10.2 #35,37,47,49,71,75 pg. 681-683
6.4 #7,9,13,15,19,21,23,25 pg. 471-472
6.5 #3,5,7,15 pg.475
Hw#7
8.3 #5,9,25,27,29 pg. 584-585
8.5 #3,5,11,17 pg. 598-599
9.1 #7,9,11,13,15, pg. 610-611
9.2 #11,23,(26) pg. 619-620
9.3 #1,3,5,7,9,11,13,15,17,19 pg. 626



Student Learning Outcome(s):

• Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.

• Formulate and use the Fundamental Theorem of Calculus.

• Apply the definite integral in solving problems in analytical geometry and the sciences.

Office Hours:

M,T,W,TH	9:30 AM - 10:00 AM	S-76D
W,TH	2:30 PM - 3:20 PM	Zoom