INTRODUCTION:

Welcome to integration calculus. I am Millia Ison. I have been teaching at DeAnza College for almost 30 years. I am excited to teach this class online and plan to work with you closely to help you to succeed. In this course, you will use of your algebra, and pre calculus skills to work with higher level mathematics and solve interesting application problems.

You will need to spent **at least 25 hours a week** to study the material, do homework and quizzes. Homework and quizzes are on webassign. About $100 to purchase the access online. If you used webassign in Math 1A at DeAnza, you may already have your account. Class code is in the syllabus next page.

Homework: You have 5 submissions to get the correct answer for a question to earn a point. It is very important for you to understand the comcepts when you do problems. You need to practice until you can do a problem without a sample example, notes or hint. Sections listed on the class syllabus calendar are suggested study plan.

Quizzes: You have quiz twice a week. I list section number as quiz name on webassign. For example Quiz 5.3 means this quiz covers section 5.3 in the text. Learn the material and do the related homework first before you start quiz. You have **3** submissions for each question on quiz. Quiz(zes) will be available Monday 8 am weekly, due the following Sunday 11:59 pm. Once you start, you have 60 minutes to finish. **NO EXTENSION.**

Exams and Final: Reveiws for each exam will be provided on Webassgn a few days before the exam for you to prepare. Doing the reviews will **not** earn you any points for your grade. Exams and Final are to test your understanding of the course material. **No notes and No Calculator allowed**. The following are some of the basics of the prerequisite you must know. Limit and derivatives of all functions in math 1A. Graph without a calculator $f(x)=mx+b$: $f(x)=ax^2$ $f(x)=a\sqrt{x}$, $f(x)=\frac{1}{x}$, $f(x)=a\sin x$, $f(x)=a\cos x$, $f(x)=a\tan x$ and related ones.

Compute simple fractions and radicals without a calculator, for example: $\frac{2}{3}+2^{-1}=\frac{5}{6}$, $25^{3/2}=125$. Find the exact values of trigonometric functions: sin, cos, tan, cot, sec, csc of $\frac{p}{6},\frac{p}{4},\frac{p}{3},\frac{p}{2},p$ and 0.

Need Help?

1. Tutoring is available both on-campuus and online. See http://deanza.edu/studentsuccess/mstrc/

2. Post questions in the Discussion section in Canvas

3. Email me at milliaison@deanza.edu

4. Form a study group with other students in the class

5. Follow the "NetTutor" on the navigation in Canvas

I also teach the same class on campus Tuesday / Thursday 4 p in room E32. Monday /Wednesday 6:30 p in room E36. If seats available, you may come to class to learn. Please email me to see if I have space for you.

COURSE: Math 1B-67Z Calculus **QUARTER:** Winter 2020
Online **INSTRUCTOR**: Millia Iso
EMAIL: **isonmillia@fhda.edu** **OFFICE PHONE**: 864-5659
OFFICE HOUR : MW: 3:00 – 3:50 p. **OFFICE NUMBER**: S76e
TuTh: 2:30 – 3:30 pm, answer questions through email online
COURSE PREREQUISITES: Math 1A, or equivalent course with a grade "c" or better.
TEXT: Calculus: Early Transcendentals, by James Stewart, 8th edition.
ENROLL WEB ASSIGN : Webassign.net . Class code: **deanza 6557-3548**
Homework and quizzes are on Web Assign.
EQUIPMENT: A graphic calculator or a computer with graph capability is required.
GRADING:

Homework ----75 points	A: 93% - 96 % , 558 - 600 pts	C+: 76% - 79 % , 456 - 479 pts
13 quizzes ------75 points	A– : 90% - 92 % , 540 - 557 pts	C: 70 % - 75 %, 420 - 455 pts
3 midterms --- 300 points	B+: 87% - 89 % , 522 - 539 pts	D: 60 % - 69 %, 360 - 419 pts
Final exam ---- 150 points	B: 83% - 86 % , 498 - 521 pts	F: 0 % - 59 %, 0 - 359 pts
Total ---------- 600 points	B–: 80% - 82 % , 480 - 497 pts	

HOMEWORK POINTS: You need to do your homework on a regular bases. However all homework is due on March 22, 11:59 pm. Total points on WebAssign is 675(subject to change). Out which, 622 points are required (subject to change). If you have 622, you earn 75 points (full credit) toward your grade. If you have total of 650, then $650/600 \gg 1.05$, that is 105%, $105\% \times 75 \gg 79$, you have 79 points for homework, which is 4 points extra credit. The total amount of the extra credit will be decided after the final exam.

QUIZ POINTS: 6 points each quiz. 2 quizzes each week (1 quiz if a week has exam), due Sundays 11:59 pm, available 1 week before due. **NO EXTENSION under any circumstances**. If the deadline is missed, you get 0 for the quiz. There are 18 quizzes this quarter. 13 quizzes are required. The extra quizzes either will be dropped (lowest scores) or will be extra credit. The total amount of the extra credit will be determined after the final exam.

EXAM POINTS: 100 points each. **MUST BRING YOUR PHOTO Identification Card**
Exam 1: Jan. 24, Friday 5:00 – 6:30 pm Room: MLC 108.
Exam 2: Feb. 21, Friday 5:00 – 6:30 pm Room: MLC 108.
Exam 3: Mar. 13, Friday 5:00 – 6:30 pm Room: MLC 108.

No make-up midterm exams. Absences are counted as 0's. If the percent of your final exam score is higher than some of your exams, it will replace the lowest exam score. It can only replace 1 out of 3 exams. For example: your lowest exam score is 73%, your achieve 120/150 on the final exam, which is 80%. Then the 73 on the exam is replaced by 80. If all your 3 exams are higher than your final exam percentage, then your exam scores will not change. People doing better on the final will help their overall score.

FINAL EXAM: 150 points. **MUST BRING YOUR PHOTO Identification Card**
Tuesday, March 24, 4:00 – 6:00 pm Room: TBA
Fail to take the final exam, you will receive "F" for your grade.

Exams are to test your understanding of the homework assignments. **Cheating of any form on midterm exams or final exam will be grounds for disciplinary action.**

IMPORTANT DATES: Sunday, Jan. 19 --- Last day to drop without grade on your record.
Friday, Feb. 28 --- Last day to drop with a "W".

Student misses numerouse quizzes and not come for exams without contact me may result in a "W" or "F" for the class. Student is responsible to withdraw from the class. The last day for you to withdraw is Feb. 28. After that day, you will receive a grade.

Alternate Exam Policy

If you prefer not to take the exams on the official dates/times you may REQUEST to take the exam elsewhere. Approved testing centers include members of the Consortium of College Testing Centers OR a US Forces base overseas OR San Jose State University's proctoring center See ***http://www.ncta-testing.org/find-a-cctc-participant*** for a list of testing centers, and also check San Jose State University at ***http://testing.sjsu.edu/proctor/***. You must email me the place, plus the name, phone and email of a contact person at the testing center (see below).

If you wish to take the exam at an alternative day/time, you must have COMPLETED the following with me at least ONE WEEK in advance of the official day for EACH exam.

1. You may ONLY take the exam on Wednesday or Thursday of the official exam week.

2. You must email me to let me know where you are requesting to take the exam, and the day and time of your appointment. Please be sure to provide me the following information in a SINGLE email:

i) Place you are requesting to take the exam.
ii) Name, phone and email of a contact person.
iii) Day and time of your appointment for each exam.

3. I will contact the testing center within 1 school day of you contacting me.

4. I must have received a response from the testing center at least ONE week in advance of the official exam.

If these arrangements are not completed 1 week in advance, your options are either to take the exam with the class at the scheduled time on campus or to miss the exam and receive a grade of 0.

Completed exams and the solution sheet must be emailed to me by your testing center by noon Cupertino time of the following day. Any late work will receive a grade of 0.

NOTE: You are REQUESTING an alternate exam day and time. I am under NO obligation to allow exams elsewhere.

Students with disability-related need for academic accomidations or services, please contact Disability Support Services (DSS) 408 864 8753 or Educational Diognistic Center (EDC) 408 864 8839. The Center will inform me your situation. You may take exams at EDC, but you must schedule with EDC Wednesday or Thursday of the official exam week. You need to schedule one week ahead the exam day.

Text: Stewart 8th edition **Math 1B-67Z Winter 2020 Calendar**

Chapter	SEC	PROBLEMS		Monday	Tuesday	Wednesday	Thursday	Friday
Integrals	5.1	Areas and Distances	Jan	6	7	8	9	10
	5.2	The Definite Integral		5.1	5.1	5.2,	5.2	5.2
	5.3	The Fundamental Theorem of Calculus	Wk1			Quiz 5.1		Quiz 5.2
	5.4	Indefinite Integrals and the Net Change Thm	Jan	13	14	15	16	17
	5.5	The Substitution Rule		5.3	5.3, 5.4	5.4	5.5	5.5
			Wk2			Quiz 5.3		Quiz 5.5
Applications of Integrals	6.1	Aresa Between Curves	Jan	20	21	22	23	24
	6.2	Volumes		M L King Day	6.1	6.1	Review	Exam 1
	6.3	Volume by Cylindrical Shells	Wk3	Holiday		Quiz 6.1		5:00-6:30 p
	6.4	Work	Jan	27	28	29	30	31
	6.5	Average Value of a Function		6.2	6.2	6.2	6.3	6.3, 6.4
			Wk4			Quiz 6.2		Quiz 6.3
Techniques of Integration	7.1	Integration by Parts	Feb	3	4	5	6	7
	7.2	Trigonometric Integrals		6.4	6.4	6.5	7.1	7.1
	7.3	Trigonometric Substitution	Wk5			Quiz 6.4		Quiz 7.1
	7.4	Integration of Rat'l Funct'ns by Partial Fractions	Feb	10	11	12	13	14
	7.5	Strategy for Integration		7.2	7.2	7.3	7.3	Lincoln's Birthday
	7.7	Approximate Integration	Wk6			Quiz 7.2		Holiday
	7.8	Improper Integrals	Feb	17	18	19	20	21
				Washington's B-day	7.4	7.4	7.5	Exam 2
Further Applications	8.1	Arc Length	Wk7	Holiday		Quiz 7.4	Review	5:00-6:30 p
	10.2	Arc Length of Parametric Equations	Feb	24	25	26	27	28
	8.3	Applications to Physics and Engineering		7.5	7.7	7.7	7.8	Quiz 7.8
	8.5	Probability	Wk8			Quiz 7.5&7.7		last day to drop w/W
			Mar	2	3	4	5	6
Differential Equations	9.1	Modeling with Differential Equations		8.1	10.2	8.3	8.3	8.3
	9.2	Direction Fields and Euler's Method	Wk9			Quiz 8.1, 10.2		Quiz 8.3
	9.3	Separable Equations	Mar	9	10	11	12	13
				8.5	8.5	9.1	Review	Exam 3
			Wk10			Quiz 8.5		7:30-8-30 p
			Mar	16	17	18	19	20
				9.2	9.2	9.3	9.3	Review
			Wk11			Quiz 9.2		Quiz 9.3
			Mar	23	24	25	26	27
				Reivew	Final			
			Wk12		4:00 – 6:00p			

All homework assignments and due dates are listed on WebAssign.

These are the least amount of exercises you need to do. If you don't master the material well afterdoing WebAssign, work with more of the similar problems in the text.

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.