

ANALYTIC GEOMETRY AND CALCULUS I

MATH 226, SPRING 2018- BLDG. 21, ROOM 145 (4 UNITS)
SECTION #68129 - MON & WED 10:15 AM - 12:20 PM

INSTRUCTOR



Name	STEPHEN TONER
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Phone	760.245.4271 ext. 2770
Email	Stephen.Toner@vvc.edu (see email policy on last page)
Websites	www.stevetoner.com, www.MathVideos.Net
Office Hours	Tuesdays: 10:00 AM - 11:30 AM Thursdays: 10:00 AM - 11:30 AM

COURSE

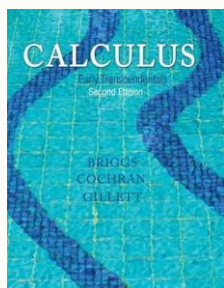
DESCRIPTION

This class offers an introduction to the calculus of single variables. Topics covered include limits, using limits of functions to determine continuity, finding derivatives and integrals of functions, basic properties of derivatives and integrals, the relationship between derivatives and integrals as given by the Fundamental Theorem of Calculus, and applications.

PREREQUISITES

Math 104 and Math 105 (or Math 105H) with a grade of "C" or better, or by eligibility by placement on the VVC assessment exam.

TEXTBOOK / MATERIALS



Calculus, Early Transcendentals, by Briggs, Cochran, and Gillett, 2nd edition. You will be using this text for Math 226, 227 and 228. You can purchase a physical text (ISBN 9780321965165) or the MyMathLab access (ISBN 9780321199911). I will have a blank shell of a course for you at MyMathLab, but no exercises scheduled there. Your homework will all be done on paper (the old-fashioned way). Should you choose to go to <http://www.mymathlab.com> in order to access the interactive e-book and any other "canned" practice, use the course code: **toner24337**. As all assignments will be done on paper, you may choose to print out the book's exercises in order to use them for assignments (which will require that you download the Wolfram CDF Player).

CALCULATORS

While **graphing** calculators are an excellent tool for exploration and verification, they will not be allowed on tests or the final exam. A **scientific** calculator (which must have no limit, differentiation, integration, or solve functions) will be permitted on tests and the final exam.

HOMWORK

PRACTICE is a vital component in learning mathematics. It will be assigned regularly and will be due as a chapter packet on the day of the corresponding chapter exam. Do not procrastinate in doing your homework; we will proceed in class each day under the assumption that you are working exercises in the sections right after they are assigned. Each homework will count as 25 points, will be partially graded on completeness, and partly graded on pre-selected problems (known only to Prof. Toner).

TESTS

Any test not taken will receive a zero. Students are expected to complete all tests during class on the dates and time scheduled. **No make-up or re-take tests will be given** (although the lowest test score will be dropped). If there are extenuating, documented circumstances that cause you to miss more than one test, please discuss this with me. The use of cell phones, notes, cheat sheets, etc., are prohibited on tests.

GRADES

Grades will be based on all chapter tests, homework, and a comprehensive final exam. The official grade for this course is kept in the gradebook in BlackBoard.

Grading Criteria		Grading Scale	
		A	[90,100]
Tests:	300 points	B	[80,90)
Homework:	100 points	C	[70,80)
Final Exam:	200 points	D	[65,70)
Total	600 points	F	[0,65)

STUDENT ACCESS

Students with special needs are encouraged to meet with instructors to discuss the opportunity for academic accommodation and be referred to disabled student program and services per Administrative Procedure (AP 3440).

If you have a learning disability or physical need that requires special accommodation, please advise me prior to 02-19-18 (the start of the second week of class).

EXPECTATIONS: Because it is my hope that each of you is successful in this course, I expect that each of you will be respectful to each other and to me. In part, this includes **turning off any cell phones** (or switching them to silent mode) **and other personal electronic devices** during class time (including during exams) and **leaving them away**. It also includes **not disrupting the learning environment of the class**.

ACADEMIC SUPPORT

You are strongly encouraged to get tutoring or go to the Math Success Center, study in groups, and see me for help outside of class. All of these are free! Students that get help outside of class are typically much more successful than those that do not.

Regular Math Success Center hours are (Spring 2018):

Monday - Thursday: 9:00 AM - 8:00 PM

Fridays: 9:00 AM - 5:30 PM

The Math Success Center is located in building 21, room 146.

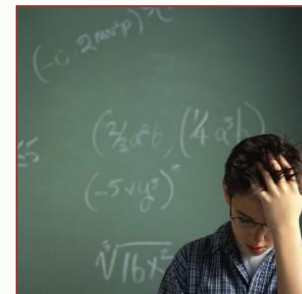
There will be special workshops with math professors for help in Math 226 in 21-145:

Mondays from 12:30-2:30 (right after our class with Prof. Ngobi)

Thursdays from 1:00-3:00 (with professors Viehweg and Moore)

Fridays from 11:00-3:00 (with professors Weis and Mecklenburg)

I will be in 21-145 on Wednesdays from 3:15-5:15, but the focus will be on Math 42, 90 and 120.



My office hours are listed at the start of this syllabus. Appointments are also available if you are unable to meet me at those times. Online office hours are also available...

SCHOLASTIC DISHONESTY



While students may work together on the researching of any assignment, it is expected that each of their writing assignments reflect substantial individual effort. Any student who commits plagiarism or is found to have cheated on a scheduled exam is subject to a zero score for that specific exam which may result in a term grade of "F" for this course. Students should be aware that cases of cheating and/or plagiarism will be forwarded to the appropriate college administrator promptly. The college administration has a range of sanctions that may be imposed including, but not limited to, academic suspension or expulsion from the college.

ATTENDANCE

YOU ARE REQUIRED TO ATTEND CLASS EVERY DAY. AFTER 4 HOURS OF ABSENCE (2 CLASSES), YOU MAY BE DROPPED FROM THIS CLASS. IT IS YOUR RESPONSIBILITY TO KEEP YOUR ENROLLMENT STATUS CURRENT. YOU RISK AN "F" IF YOU STOP ATTENDING WITHOUT OFFICIALLY WITHDRAWING. DO NOT BRING FRIENDS OR CHILDREN TO CLASS. PLEASE PUT AWAY ALL MP3 PLAYERS AND TURN ANY CELL PHONES TO SILENT MODE DURING CLASS TIME. NO CELL PHONES WILL BE ALLOWED ON YOUR DESK DURING EXAMS. WE ARE HERE TO LEARN; PLEASE REFRAIN FROM TEXTING DURING CLASS.

Class attendance is not a measure of performance or proficiency. Whether a student is just physically present in the class is not a valid basis for grading. Reference Title 5 Section 55002 of the California Code of Regulations: (A) Grading Policy. The course provides for measurement of student performance in terms of stated course objectives and culminates in a formal, permanently recorded grade based upon uniform standards in accordance with section 55758 of this Division. The grade is based on demonstrated proficiency in the subject matter and the ability to demonstrate that proficiency, at least in part, by means of written expression that may include essays, or, in courses where the curriculum committee deems them to be appropriate, by problem solving exercises or skills demonstrations by students.

IMPORTANT NOTES ABOUT TECHNOLOGY

This course requires reliable computer access if you are going with the MyMathLab option. Please ensure your computer is in good repair at the start of the semester. You will need to be able to open pdf files on your computer using Adobe Acrobat as well as use the Wolfram app to view the interactive e-book. While documented outages may occur, it is the student's responsibility to meet all deadlines in this course. If your internet service at home is unreliable, do not wait until the last day to start assignments. There are plenty of computers that you are able to use on campus.

VVC CALENDAR



Feb 12	First Day of classes
Feb 19	Campus Closed - President's Day Holiday
Feb 25	Last day to drop without receiving a "W" grade
Mar 31	Last day to drop and receive a "W" grade
Apr 9-15	Spring Break
May 28	Campus closed - Memorial Day
June 9	Last day of fall term (June 7 th for our class)

OUR CLASS SCHEDULE

The last day for students to add or drop without a 'W' is 2/25, and the last day to drop with a 'W' is 3/31.

An effort will be made to adhere as closely as possible to this schedule. However, sometimes things come up and changes need to be made to the schedule. I will make every effort to keep the test dates as scheduled, and will notify the class in advance if any dates need to be changed.

SECTION TO BE COVERED			Homework by Section
M	2/12	Introduction, Review, 2.1	2.1: 1-15 odd, 26, 29
W	2/14	2.2, 2.3	2.2: 7-13 odd, 19-23 odd, 27, 29, 43, 44
M	2/19	President's Holiday - campus closed	2.3: 5, 9-16 all, 17-51 odd, 55, 61-67 odd, 85
W	2/20	2.4	2.4: 9, 11, 15-37 odd, 44
M	2/26	2.5	2.5: 6, 9-33 odd, 45-49 odd, 53-59 odd, 73
W	2/28	2.6, 2.7	2.6: 1, 8, 9-31 odd, 35-49 odd, 59a, 61a
M	3/5	3.1, 3.2	2.7: 9, 11, 19, 21, 22
W	3/7	CH. 2 TEST	3.1: 9-45 every other odd, 59-55 odd, 58, 63
M	3/12	3.3, 3.4	3.2: 5-15 odd, 21-27 odd, 37
W	3/14	3.5, 3.6	3.3: 7-47 odd, 52, 71
M	3/19	3.7	3.4: 7-47 every other odd, 53, 59-67 odd, 72
W	3/21	3.8	3.5: 1, 5-49 odd, 57-61 odd, 67, 72
M	3/26	3.9, 3.10	3.6: 7, 9-17 odd, 21, 25, 33, 34
W	3/28	3.11	3.7: 7-37 odd, 41-49 odd, 57-63 odd, 71, 73, 81
M	4/2	Review	3.8: 5-27 odd, 31-39 odd, 45, 47, 59
W	4/4	CH. 3 TEST	3.9: 9-29 odd, 35-51 every other odd, 61
M	4/9	Spring Break	3.10: 9-45 every other odd
W	4/11	Spring Break	3.11: 5, 10, 17, 19, 23, 25, 37, 51
M	4/16	4.1, 4.2	4.1: 9-53 every other odd, 65, 69ac
W	4/18	4.3	4.2: 7-47 every other odd, 57-77 every other odd
M	4/23	4.4	4.3: 7-19 odd, 49
W	4/25	4.5, 4.6	4.4: 5-15 odd, 21, 40
M	4/30	4.7	4.5: 7, 13, 17, 31
W	5/2	4.9, 5.1	4.6: 7, 13, 17-23 odd, 33
M	5/7	CH. 4 TEST	4.7: 9, 13-43 every other odd, 53, 55, 71
W	5/9	5.2	4.8: none
M	5/14	5.3	4.9: 13-77 every other odd, 83, 85-93 every other odd
W	5/16	5.4	5.1: 9, 17, 23, 41
M	5/21	5.5	5.2: 5-15 odd, 18, 25, 29-35 odd, 41-51 odd
W	5/23	6.1, Review	5.3: 11-49 odd, 55, 81
M	5/28	Memorial Day - campus closed	5.4: 3, 7-29 odd, 33, 35, 47
W	5/30	CH. 5 TEST	5.5: 9-59 odd
M	6/4	Review	6.1: 9-23 odd, 27-35 odd, 57
W	6/6	FINAL EXAM	All done.... Phew!

EMAIL

I do my best to answer all emails as quickly as I can, but sometimes it can be difficult.

You would not believe how many unidentified emails I receive on a regular basis... as a result, I have established this policy to help me provide you with the quickest, most reliable response.

Send all emails to Stephen.Toner@vvc.edu.

Prof. Toner's Email Policy

Please read carefully the set of rules applicable to all emails you may send me.

The subject line (title) of the email **must** include the following information:

1. Your first and last name
2. Your class name, meeting days and times
3. The reason for the email

Examples:

- Jessica Jones, Math 90 online, about my chapter 3 test
- Jessica Jones, Math 120 TTh at 8 am, out sick today

Do not email asking questions that can be answered by reading the syllabus. For example, please do NOT email me questions such as "Can I take the test at a later date?" or "When is the final exam?"

Write emails using **proper grammar, punctuation and capitalization**. In other words, do not text me.

Emails that don't follow these guidelines may not be answered quickly.

Prof. Toner's Schedule

I make every effort to respond to emails as quickly as I can, however some days are rather busy, especially on Tuesdays and some Thursdays. Emails received after 9:30 or so in the evenings may not receive responses until the next day. On weekends, I generally try respond to emails in the morning and evenings, but response time may be a bit slower in the middle of the day.

Additionally, I will do my best to respond while at conference or traveling, but please understand that there may be delays for such.

STUDENT LEARNING OUTCOMES

Upon completion of the course the student can:

1. calculate basic limits.
2. calculate basic derivatives.
3. calculate basic integrals.
4. apply the derivative and integral to elementary applications.

Program Level Outcomes: Students will be able to calculate arithmetic, algebraic, geometric, spatial, and statistical quantities using appropriate technology.