

Syllabus
Three Rivers Community College
MAT 256 Calculus 2 room D 212
Fall 2015 Wed 5:30-9 PM (CRN) 31830

Instructor:

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Office Hours: Wed 4:00-4:50, Thurs 10-11:50 in office Room C124 or by appointment

MAT* K256 (formerly MAT K152) 4 CREDIT HOURS CALCULUS II

Prerequisite: MAT* K254 with a "C" grade or better.

This course is the second semester of calculus intended for students who plan on majoring in mathematics, physical science, or engineering technologies. The topics include the definite integral, applications of integration, methods of integration, sequences, series and vectors..

Text: Calculus by James Stewart, 7th edition, Early Transcendentals (available as an interactive e-book on www.Webassign.com) The text is now in its 8th edition, but we at TRCC will continue to use the 7th edition for Fall Calc 2 and Spring Calc 3. The same text is good for 3 semesters of Calculus. The good thing is that the 7th edition will be very inexpensive if you buy a used copy on the internet.

Online e-text OPTION: www.webassign.com login for a free 14 day trial using the COURSE KEY **trcc.mohegan 4348 6938.**

You will be able to create your own login and password. The institution code is trcc.mohegan

Everyone should register for the FREE TRIAL so you can see what the software has to offer. If you already have Webassign from Calc 1, you should be able to log into this course for free.

Webassign includes an interactive copy of the text, lecture videos, tutorials indicated by the pi symbol, review and practice problems and homework hints. Since you have WebAssign, you do not need a hard copy of the text. WebAssign is good until the text goes to a new edition.

- Webassign is free for 14 days so use it early, decide if you want to purchase it for the semester.
- There is also a Webassign edition of the text in softcover that come with the code for less than the purchase of the hardcopy of the text.
- If you have an access code from your precalc text, and did not use it, it will probably work for the Calculus course.
- One option is to use the free trial for 13 days, then use a credit card to pay \$75- \$110 when prompted at the login to extend your use of Webassign beyond the free trial.

Note: you do not need to purchase a hard copy of the text if you have webassign.

Whether you choose to use the hard copy of the text or Webassign or both, you will be required to read the text and do homework problems. Webassign gives you the option of watching lecture videos or doing the tutorials instead of reading the text.

Calculator: You will need some calculating and graphing device. You may use calculator apps for your ipods or laptops. The most often used calculator is the TI 89 or 84. There is a big difference between the TI 84 that is a number crunching machine and the TI 89 that is able to actually do the algebra and calculus problems. The TI 89 is a CAS (computer algebra system). If you have an android cell phone, you can find a free download for the TI calculators. Instead of a calculator you may use any of the free math programs downloadable from the web. Two free computer algebra systems are Wolfram Alpha and the graphing calculator-like-Microsoft Mathematics available at www.microsoft.com/mathematics. Though you don't need a computer algebra system for this course, you will want to become familiar with one. It is really handy when you want to check your answers. It is also really handy when we do the chapter on differential equations.

Tutoring at TASC: You may sign up for a regular free tutor session in the tutor center in Room C117 by the library. Appointments fill up quickly, so call the tutor desk is 860-215-9082, as soon as you think you might want to engage a tutor on a regular basis. Walk-in tutoring is on a space available basis.

Grading Policy:

There will be

- **3 tests.** Each of the 3 tests count a total of $1/7^{\text{th}}$ of your final grade, about 14% each test, and 42% of the semester grade. Some of the parts of a test may be open notes or not, allow formulas or not, or allow calculating devices or not. I will let you know before the test what the ground rules will be. It all depends on what I am trying to assess. If I am testing to see whether you can add or not, then you would not be allowed to use a calculator. If I am testing to see whether you can determine your monthly living expenses, then I would allow a calculator. On a test or quiz it is NEVER ALLOWED for you to search for an answer or method for doing a problem. Nor may you communicate with anyone during the test in any way. On tests and quizzes, computers and cell phones ONLY if they are used as calculating devices or Computer Algebra Systems.

If you miss a test or do poorly on one test: You will be given the opportunity to retake one of the 3 tests during the last week of the course in December. IF you miss a test during the regularly scheduled time, you will receive a zero for that test. At the end of the semester, anyone can make up one test or re-take any test. This allows for you to miss a test due to illness, for example. If you know in advance that you have a schedule conflict between a test date and work, for example, or if there is a catastrophe of some sort, we may be able to make arrangements for you to do a make up test right away, if you notify me in advance – before 5:30 PM the day of the test. Otherwise you will have to wait till the end of the semester to make up the test. If too many people are having to do make up tests, I will offer the end of semester option only.

- **7 in-class quizzes or take home investigations** in total will count for a total of 1/7 of your final grade which is approximately 2% each quiz/investigation and 14% of the semester grade
- **homework problems**, that will be graded weekly. The entire semester of homework counts 1/7th of your final grade which is about 1% each week and totals 14% of the semester grade.
- and a **cumulative final exam**. The final exam counts 2/7th, about 28%, of the semester grade. Students who receive lower than 40% on the final exam will fail the course regardless of their other grades. The final exam will be OPEN NOTES, so be sure to write good notes during the semester to use at the end.

To receive a grade for doing your homework, either

- enter your solutions to the homework on Webassign. Your homework grade each week will be the percent correct on Webassign plus 20%. For example, if you did 16 out of 20 problems, the you did 80% of the Webassign homework. You will earn 100% for that week's homework. If you enter your homework answers in WebAssign, you will still need to keep a notebook of your work – you don't actually do your work on the computer. Webassign just grades your answer to a problem you worked out in your notebook, and provides you with hints, sample solutions and extra practice, if you want.

OR

- hand in a small sample of the homework problems that I will randomly choose from the entire assignment. It will help if you keep your work in a loose leaf notebook, so it is easy to hand me couple individual problems at my request. If you choose the paper option, I will grade the two homework problems you hand in for your homework grade.

When I grade the few homework problems that you hand in to me each week, I will give partial credit for good attempts even if the final answer is wrong. On the other hand, there will be no credit if you hand me just the answer. I must see (i.e. believe) that you worked out the problem, and that you did not copy it from the solution manual, computer algebra system or another source. I will tend to ask you to hand in a problem that requires critical thinking as well as proper execution of the skills.

I encourage everyone to work collaboratively and to use any resources to do the homework, however, if you submit a homework problem, then I will assume you understand the problem and could do it again if asked. I may give you a "homework quiz" to be sure you can do a given problem.

Digication and General Education:

Each student has a subscription to DIGICATION, an electronic portfolio, that is active forever. As part of your general education requirements, you will upload your work from one of the class assignments onto DIGICATION for me to grade. More information and guidance will occur when the time comes.

College Withdrawal Policy and the N (no show) grade:

You may withdraw from this class any time up to and including Dec ____, and you will receive a W grade on your transcript. However, you must complete a withdrawal form in the Registrar's Office at the time of withdrawal; if you merely stop attending classes before Nov ____, you will receive a grade of "N" which means "no show". Financial aid students MAY have to reimburse the college for courses in which they have an N. If you do not take the final exam, you will receive a grade of F, regardless of the other work you do. No one's signature other than your own is required on the Withdrawal form. However, I strongly suggest you discuss your withdrawal with me before you submit the forms so that we can discuss your status and your options. Financial aid students should also discuss withdrawal from a course with a financial aid counselor so that you know the monetary ramifications.

Disabilities Statement:

If you have a hidden or visible disability that may require classroom or test-taking modifications, please see me as soon as possible so arrangements can be made. If you have not already done so, please contact the Learning Specialist, Chris Scarborough, at 860-892-5751 to obtain the proper accommodation credentials.

Academic Integrity:

Academic integrity is essential to a useful education. Failure to act with academic integrity severely limits a person's ability to succeed in the classroom and beyond. Furthermore, academic dishonesty erodes the legitimacy of every degree awarded by the College. Collaboration is encouraged on many assignments such as homework. Tutors are available to assist you with this sort of work.

In-class tests and the final exam are considered individual work and must be completed without unauthorized assistance of any kind, including help of other students, tutors, unauthorized technology or notes. All test material is to be turned in with the test paper. Attempting to bring work out of the testing area and/or share that work with other students is considered cheating. Cheating on tests, misrepresentation of attendance, falsifying records, or lying will result in loss of credit for all work involved.

I encourage you to collaborate on homework. However, you must understand what you hand in to me. I may verify that you have learned the material covered by the work you have

handed in by asking you to explain your work. I may give you a 0 on any work you hand in or any answers you submit that you do not understand or cannot explain.

A full copy of the college's academic integrity policy is in the school's catalog and in the student handbook.

Emergency Closings or class cancellations

If the college administrators decide to issue an emergency school closing, you can receive immediate notifications if you go to My.Commnet.edu and register for the mycommnet.ALERT. You will then receive phone or text messages as soon as a closing is announced. The Alert is more reliable than my email, since sometimes I lose internet service during a storm. If I am going to cancel class or office hours, I will email everyone. I will also post an announcement on Blackboard.

Schedule of classes Calculus 2 Fall 2015 Mat 256 Professor Decker

Please prepare for class by reading the sections in the text or viewing video lectures or doing the π tutorials on WebAssign BEFORE we discuss it in class. Class will be conducted with the assumption that you have viewed the material BEFORE the class begins. Then you will do the assigned homework problems on that section AFTER the class meeting.

Calc 2 Schedule Fall 2015

WEEK 1 Sept 2

chapter 5 review of integration, Section 6.1 area between curves, 6.2 Volumes

WEEK 2 Sept 9

Quiz on integration and finding area between curves

Sections 6.3, 6.4, 6.5

WEEK 3 Sept 16 Quiz on Volumes

Sections 7.1, 7.2, 7.3

WEEK 4 Sept 23 Quiz on sections 7.1 and 7.2

Sections 7.4, 7.5, 7.6

WEEK 5 Sept 30

Sections 7.7, 7.8 and l'hopitals rule from section 4.4

WEEK 6 Oct 7

TEST ON CHAPTERS 6 and 7 from 5:30 till 7:30

Section 9.1 and 9.2 from 7:45 till 9 PM

WEEK 7 Oct 14
Sections 9.2 continued, 9.3, 10.1

WEEK 8 Oct 21 Quiz on ch 9
Sections 10.2, 10.3, 10.4

WEEK 9 Oct 28 Quiz on ch 10
Sections 11.1, 11.2 and 11.3

WEEK 10 Nov 4
TEST ON CHAPTERS 9 and 10 from 5:30 till 7:30 PM
Section 11.4 from 7:45 till 9 PM

WEEK 11 Nov 11
Sections 11.5, 11.6, 11.7, 11.8

WEEK 12 Nov 18 Quiz on chapter 11.1-11.8
Sections 11.9 and 11.10

November 25 Thanksgiving Break

WEEK 13 Dec 2 Quiz on 11.9 and 11.10
Sections 12.1, 12.2, 12.3, 12.4

WEEK 14 Dec 9
Test on Ch 11 and Chapter 12 from 5:30-7:30.
Review for final exam from 7:45 till 9 PM
Make up tests will be scheduled at a mutually agreeable time between Dec 14 and 18.

WEEK 15 Dec 16
Cumulative Final Exam

Grades available by Dec 23 on www.my.comnet.edu under your 'unofficial transcript',