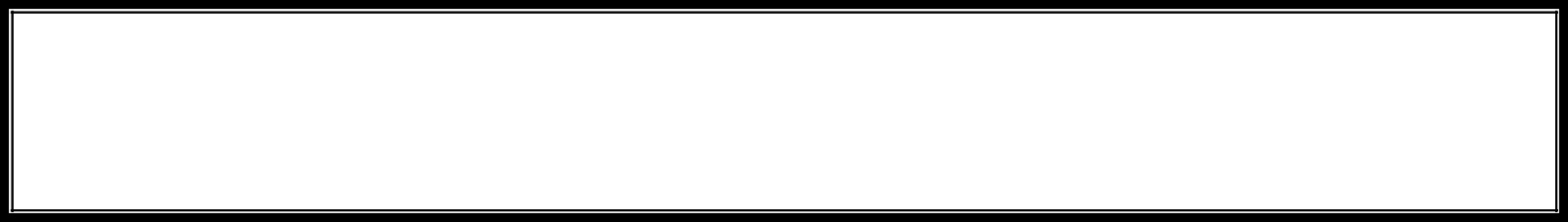
**SYLLABUS SUPPLEMENT**

**Analytic Geometry and Calculus II**

**Spring 2019**

**MAT 141.001 CRN 14876 MW 9:05-10:00 TR 9:35-10:25 OH 206**

**MAT 141.008 CRN 14701 MW 12:20-1:15 TR 12:45-1:40 OH 206**

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**INSTRUCTOR: Angela Ward**  **OFFICE: OH 200**

**OFFICE PHONE:** 864-646-1325 **E-MAIL :** [award6@tctc.edu](mailto:award6@tctc.edu)

**OFFICE HOURS:** MW 10:00 am–11:30 am, 2:00 pm -3:30 pm–4:30 pm;

TR 11:00 am-12:00 pm, 2:15 pm–3:15 pm; or by appointment

**REQUIRED MATERIALS:**

* **Calculus: Early Transcendentals*, Third Edition, by:* Briggs, Cochran, Gillett,**

**Schulz. Published by: *Pearson Custom Publishing*. 2019.** Required.

* **MyLabsPlus Access**

The Math department has gone to Direct Bill with Pearson this semester. This means that students will be billed a technology fee as part of their tuition that will cover their Pearson course access. **Students no longer have to purchase an access code for MyLabs**. Students do have an option to purchase a textbook at our Campus Store for a reduced rate if they want a

text. Otherwise, the ebook is included in their MyLabsPlus course.

* **Calculator** *(I will be using the virtual TI-84.) NOT Allowed on Tests*
* **Pencils/erasers, ¼-inch rule graph paper, 8 ½ by 11-inch notebook paper, and a three-ring binder with dividers and pockets.**

**GRADING POLICY:** The final course grade will be determined as follows:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Component** | |  | **Percent of Final Grade** | | | **Tentative Dates** | | |
| Test 1 | |  | 15% | | |  | Tuesday, January 29, 2019 | | |
| Test 2 | |  | 15% | | |  | Thursday, February 21, 2019 | | |
| Test 3 | |  | 15% | | |  | Tuesday, March 26, 2019 | | |
| Test 4 | |  | 15% | | |  | Thursday, April 18, 2019 | | |
| Quizzes | |  | 10% | | |  | Throughout the semester | | |
| Homework | |  | 10% | | |  | **Various dates---see MLP** | | |
| Final Exam | |  | 20% | | |  | **TBD** |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **Grading** | 100-90% |  | 89%-80% |  | 79-70% | 60-69% | Below 60% |  |
|  | **Scale** | A |  | B |  | C | D | F |  |

**HOMEWORK:** Homework assignments may be done in MLP. You will have as many chances as youwould like to complete the assignment in MLP before the due date, so ***start early.*** You should be able to earn at least 90% on these assignments, if you don’t wait until the last minute. Homework is worth 10% of your course grade; it can be a nice cushion, or it could bring your grade down considerably. **Do not** **ask me for an extension after the due date and time because of your lack of planning!** *(My**expectation is that you work these homework problems on paper in an organized manner in order to prepare for quizzes/tests.)*

**QUIZZES:** There will be a number of short quizzes through the semester. They may be announced orunannounced, in class or in MyLabsPlus. Your two lowest quiz scores will be dropped and the remaining quizzes will be averaged together to calculate your overall quiz grade. Each quiz will have the same weight in the average.

THERE ARE NO MAKE-UP QUIZZES AND YOU MAY NOT TAKE A QUIZ EARLY. If you miss a quiz for any reason you will receive a zero for that quiz. However, it may be the one that is dropped. The exception to dropping a quiz is a zero assigned as a result of academic dishonesty; such a grade will not be dropped.

**TESTS:** There will be four regular tests each worth 15% of your course grade. Tests will contain materialfrom the sections covered. There are ***no*** makeup tests. If you miss a test due to an excused absence (with my prior approval), your final exam grade will replace that missed test. If you have an unexcused absence the day a test is given, you will receive a 0. **The dates for the tests may change, so you need to be** **careful not to miss them if you are absent often.**

**FINAL EXAM:** A comprehensive final exam, worth 20% of your course grade, will be given duringfinal exam week

**ATTENDANCE:** Tri-County Technical College’s Arts & Sciences Mathematics Department will adherestrictly to the College’s Attendance Policy as stated in the College Catalog. Please refer to your Instructor’s Syllabus Addendum.

Tri-County Technical College believes that class attendance is crucial to student success. A student may not be absent for more than 14 consecutive calendar days in a Fall or Spring term. Note: the 14 consecutive day rule does not include Extended College Scheduled Breaks of five or more days (i.e. Thanksgiving and Spring Breaks). Weekends and scheduled breaks less than five days (i.e. Fall Break) are included in the 14 consecutive day rule. A student who violates this policy with be withdrawn from the class (if before the withdrawal deadline) or given a grade of FA (Failure due to excessive Absences) if after the deadline.

Also, any student who accumulates more absences during the semester than the class meets in a two-week period is subject to being dropped from the class. The number of allowable absences during the summer term or other terms of varying length will be 10% of the total number of class meetings.

Please be aware of the fact that this policy covers all absences, regardless of reason (illness, family emergency, work duties, etc.). It is felt that an adequate allowance has been made for such eventualities. It would therefore be wise to reserve these allowable absences for true emergencies.

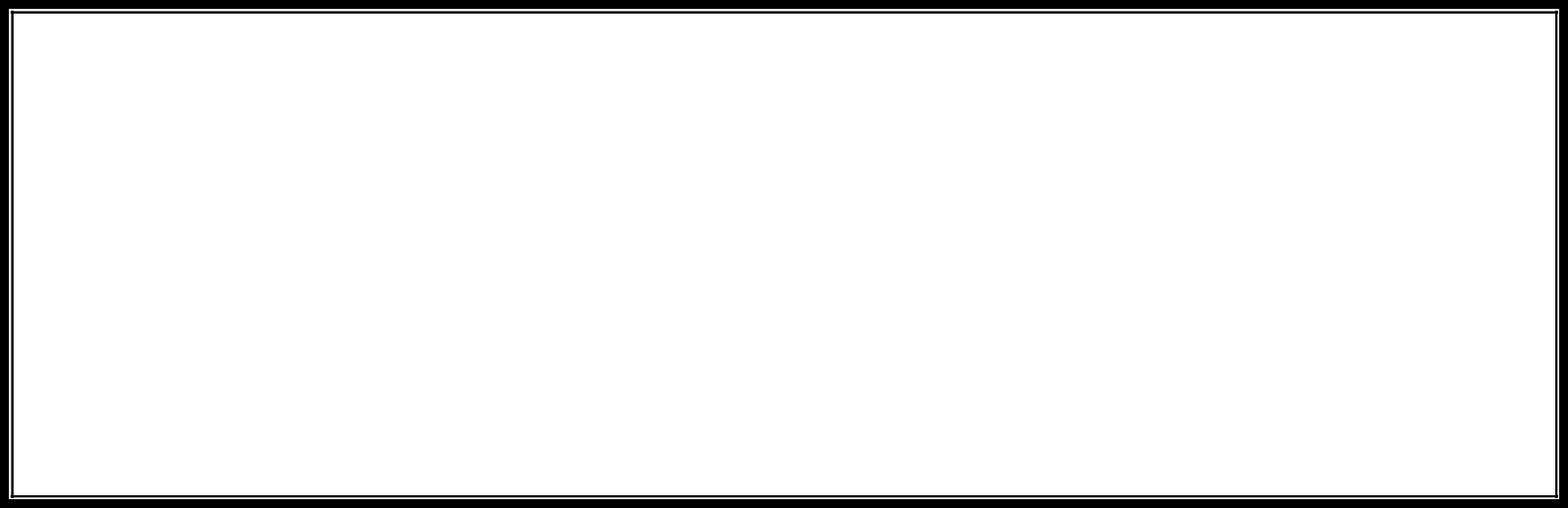
In any case, students are responsible for all material covered and announcements made during their absence.

In extenuating circumstances, a student may request re-admittance to class by meeting with the instructor and explaining the circumstances of the absences. If the instructor agrees to readmit the student, the student will be informed of the requirements, which must be met to successfully complete the course.

**STUDY GROUPS:** You are strongly encouraged to form study groups which meet outside of class forthe purpose of doing homework and studying for quizzes/tests. Explaining problems to each other is an excellent way to master the material.

**LEARNING MATHMATICS:** Learning mathematics takes time and consistent effort. Attendingclass regularly, completing all assignments in a timely manner, studying class notes, and working through the examples in the textbook are essential for success in this course for most students. **IF** you should find outside help necessary, **immediately** seek help from me, from a private tutor through Student Services, or from the people who work in the Tutoring Centers, SC 109 (Pendleton), EC 231 (Easley), or AC 208 (Anderson). Forming study groups outside of class may also offer further support.

**ACADEMIC DISHONESTY:** You are expected to abide by Tri-County’s Technical College’s code ofacademic conduct on all quizzes, tests, and the final exam. (Refer to page 36 and Appendix 3 in the TCTC catalog.) Copying quiz or test/final exam answers from someone is considered cheating as is altering a quiz or test/final exam solution after it has been graded or giving answers to someone during a quiz or test/final exam.



**OTHER EXPECTATIONS:** You are expected to show respect to your fellow students be exhibitingbehavior so that each student can benefit from the time spent in this class.

* Arrive to class on time. Stay until class is dismissed.
* Pay attention, take notes.
* **No texting in class!**
* ***Please turn off and put away all cell phones and other electronic devices.***

***E-mail*** *will be my primary means of communicating with you outside of class.* ***Check your campus eTC account often. Do NOT forward*** *your campus e-mail to any other e-mail account, because it may not**get to you.*

**Tentative Course Outline**

|  |  |  |
| --- | --- | --- |
| 1/8 | 6.2 | Regions Between Curves |
|  |  |  |
| 1/9 | 6.3 | Volumes by Slicing |
|  |  |  |
| 1/14 | 6.4 | Volumes by Shells |
|  |  |  |
| 1/16 | 6.5 | Length of Curves |
|  |  |  |
| 1/17 | 6.6 | Surface Area |
|  |  |  |
| 1/22 | 6.7 | Physical Applications |
|  |  |  |
| 1/28 |  | Test 1 Review |
|  |  |  |
| 1/29 |  | **Test 1** |
| 1/30 | 8.2 | Integration by Parts |
|  |  |  |
| 2/4 | 8.3 | Trigonometric Integrals |
|  |  |  |
| 2/6 | 8.4 | Trigonometric Substitutions |
|  |  |  |
| 2/11 | 8.5 | Partial Fractions |
|  |  |  |
| 2/14 | 8.6 | Integration Strategies |
|  |  |  |
| 2/19 | 8.9 | Improper Integrals |
|  |  |  |
| 2/20 |  | Test 2 Review |
|  |  |  |
| **2/21** |  | **Test 2** |
| 2/25 | 10.1 | An Overview |
|  |  |  |
| 2/27 | 10.2 | Sequences |
|  |  |  |
| 3/4 | 10.3 | Infinite Series |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| 3/6 | 10.4 | The Divergence and Integral Tests |
|  |  |  |
| 3/11 | 10.5 | Comparison Tests |
|  |  |  |
| 3/12 | 10.6 | Alternating Series |
|  |  |  |
| 3/13 | 10.7 | The Ratio and Root Tests |
|  |  |  |
| 3/14 | 10.8 | Choosing a Convergence Test |
|  |  |  |
| 3/25 |  | Test 3 Review |
|  |  |  |
| **3/26** |  | **Test 3** |
| 3/27 | 11.1 | Approximating Functions with Power Series |
|  |  |  |
| 4/1 | 11.2 | Properties of Power Series |
|  |  |  |
| 4/3 | 11.3 | Taylor Series |
|  |  |  |
| 4/8 | 11.4 | Working with Taylor Series |
|  |  |  |
| 4/10 | 12.1 | Parametric Equations |
|  |  |  |
| 4/11 | 12.2 | Polar Coordinates |
|  |  |  |
| 4/15 | 12.3 | Calculus in Polar Coordinates |
|  |  |  |
| 4/16 | 12.4 | Conic Sections |
|  |  |  |
| 4/17 |  | Test 4 Review |
|  |  |  |
| 4/18 |  | **Test 4** |
| 4/22 & 23 |  | Final Exam Review |
|  |  |  |
| **TBA** |  | **Final Exam** |
|  |  |  |

**STUDENTS with Identified Special Learning Needs:** If you have adocumentedphysical or learningneed or challenge, you *may* get additional time for tests and the final exam. You will need to provide me with your documentation from the Accessibility Resource Center as soon as possible, so that I provide the proper accommodations.



**IMPORTANT: The last day to withdraw online and receive a W for this class is Tuesday, March 5, 2019 (6:30 PM). If you choose to withdraw from this class, it is your responsibility to withdraw yourself before this date. After this date, you will receive a grade of F if you stop attending class.**

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***Policies, dates, and procedures stated on this syllabus supplement may be changed during the course of the semester.***