

MATH-2414-43038 Calculus/Analytic Geometry II

Instructor: Dang, James	Office: SE ESCT 2218A
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Term: Summer 2011	Last Day to Drop: 08/13/11

Office Hours

Day	Start	End	Start	End	Start	End
Mon						
Tue	09:00 AM	09:30 AM				
Wed						
Thu	09:00 AM	09:30 AM				
Fri						
Sat						
Sun						

Comments:
 Summer II - 2011 only. Daily class schedule and syllabus on <http://www.jamesdang.com>.

[District Course Requirements](#)

Text(s):

Calculus (Early Transcendentals), Ninth Edition. By Anton, Bivens, and Davis. John Wiley & Sons Incorporated, 2009. ISBN 978-0-470-18345-8.

Special Materials:

Materials that the student is expected to have in class are the text, pencils, notebook paper. Students will need a scientific calculator for some of the topics studied in the course.

Focus:

This course covers techniques of integration, improper integrals, infinite series, polar coordinates, parametric equations, and conic sections. The prerequisite is Calculus I (Math 2513 at TCC).

Requirements:

Prompt and regular attendance in this class is expected. Reading the text, participating in class, and completing assignments on time are critical components of the course. It is the responsibility of the student to contact the instructor about his/her status concerning any absence or missed work. Remember to turn off and put away beepers, cell phones, and other electronic devices before class begins. No eating, drinking, or sleeping in class is allowed.

Grading Criteria:

Evaluation of the student will be based upon performance on examinations and other work specified by the instructor.

The grading scale is as follows:

89.5-100=A 79.5-89.49=B 69.5-79.49=C 59.5-69.49=D 0-59.49=F.

The final course grade will be based on the following percentages. These percentages will not change, and extra credit work to increase grades is not possible.

Five major tests: 70%

Homework: 5%

Pop quizzes: 5%

Comprehensive Final Exam: 20%

The final exam grade may be substituted for the lowest test grade if all tests are taken. No test may be taken after the deadline unless prior permission has been obtained from the instructor. Homework will be accepted late for a maximum possible 70% credit. Exceptions for late work penalties may be given if I am notified on the due date and later provided with written proof of inability to comply. Such proof includes a doctor's note, a police report, a court order, an employer's note, an obituary notice, or a TCC dean's notice.

Class Dates:**Second Six Week Session**

<i>Description</i>	<i>Date(s)</i>
Course Registration	04/15/11 - 07/04/11
Audit Registration	07/07/11
Classes Begin	07/11/11
Census Date	07/14/11
70% Refund	07/18/11
25% Refund	07/20/11
Course Drop Deadline	08/13/11
Final Exams and Class End	08/18/11
Grades Due	08/19/11

As stated above, test and homework due dates will be announced in class. A student may withdraw from a course with a grade of W at any time on or before August 13, 2011. Students who stop attending and do not withdraw will receive a grade of F in the class. The final exam will be given on August 18, 2011 from 11:50 a.m. to 01:50 p.m.

Daily Assignments:

Class Schedule for Math 2414, Summer 2011 (subject to minor adjustments)

Week One: July 11-14:

- 1) Class Orientation
- 2) 7.1: Overview of Integration Methods
- 3) 7.2: Integration by Parts
- 4) 7.3: Trigonometric Integrals

5) Review for Exam One and Exam One

Week Two: July 18-21:

1) 7.4: Trigonometric Substitutions

2) 7.5: Partial Fractions

3) 7.8: Improper Integrals

4) Review for Exam Two and Exam Two

Week 3: July 25-28:

1) 10.1: Parametric Equations; Tangent Lines and Arc Length for Parametric Curves

2) 10.2: Polar Coordinates

3) 10.3: Tangent Lines and Arc Length, and Area for Polar Curves

4) 10.4: Conic Parabolas; Ellipses; Hyperbolas

5) Review for Exam Three and Exam Three

Week 4: August 01-04:

1) 9.1: Sequences

2) 9.2: Monotone Sequences

3) 9.3: Infinite Series

4) Review for Exam Four and Exam Four

Week 5: August 08-11:

1) 9.4: Convergence Tests

2) 9.5: Comparison, Ratio, and Root Tests

3) 9.6: Alternating Series

4) Review for Exam Five and Exam Five

Week 6 August 15-18:

1) 9.7: Maclaurin and Taylor Polynomials

2) 9.8: Maculaurin and Taylor Series; Power Series

3) 9.9: Convergence of Taylor Series

Final Exam: August 18, 2011, from 11:50 a.m. to 01:50 p.m.

Additional Class Information:

Home Work and due date on the <http://www.JamesDang.com>

[TCCD Academic Calendar](#) for important College Dates.

[TCCD Student Handbook](#) for information on attendance and withdrawal policy, dishonesty and plagiarism, and disability support services.

[Access Course Evaluations](#) for instructions on evaluating courses.