

Odessa College
Calculus II
Spring 2011
1/17/12-5/11/12

Instructor: Dr. Jack Bennett

Contact Information:

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Office: ET 106

Phone: 432-335-6634

Office Hours:

Monday and Wednesday: 2:00 – 5:30 pm

Tuesday and Thursday: 9:30-11:00 am

Course Number: 2414.13014

Class Meetings: Tuesday and Thursday, 11:00am-12:50pm, ET P1

Course description: Differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals.

Prerequisite: MATH 2413 - Calculus I

Learning outcomes:

Upon successful completion of this course, students will:

1. Use the concepts of definite integrals to solve problems involving area, volume, work, and other physical applications.
2. Use substitution, integration by parts, trigonometric substitution, partial fractions, and tables of anti-derivatives to evaluate definite and indefinite integrals.
3. Define an improper integral.
4. Apply the concepts of limits, convergence, and divergence to evaluate some classes of improper integrals.
5. Determine convergence or divergence of sequences and series.
6. Use Taylor and Maclaurin series to represent functions.
7. Use Taylor or Maclaurin series to integrate functions not integrable by conventional methods.

8. Use the concept of polar coordinates to find areas, lengths of curves, and representations of conic sections.

Text: Calculus, 9e: Larson and Edwards

Exams: there will be four 100 point exams and a final exam.

Tentative exam schedule:

Date	Test	Sections
Feb. 9	1	7.1-7.6
March 8	2	8.1-8.8
April 12	3	9.1-9.8
May 3	4	10.1-10.5

Final Exam: Tuesday, May 8, 11:00am-1:30pm; the final exam is comprehensive

You will not be allowed to use a cell or smart phone on the exams.

Homework: homework will be assigned and taken up every Thursday. Homework will always be due at the beginning of the class period. Late homework will receive half credit. No late homework will be accepted after the corresponding exam. Your homework average will be 30% of your grade.

Course Grade:

Your Course Grade will be computed as follows:

Homework: 30%
Exams: 50%
Final: 20%

I will assign a grade based on the following schedule:

<u>Average</u>	<u>Grade</u>
90-100	A
80-89	B
70-79	C
60-69	D
0-59	F

Special Needs

Odessa College complies with Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. If you have any special needs or issues pertaining to your access to and participation in this or any other class at Odessa College, please feel free to contact me to discuss your concerns. You may also call the Office of Disability services at 432-335-6861 to request assistance and accommodations.

Learning Resource Center (The Library)

The Library, known as the Learning Resources Center, provides research assistance via the LRC's catalog (print books, videos, e-books) and databases (journal and magazine articles). Research guides covering specific subject areas, tutorials, and the "Ask a Librarian " service provide additional help.

Student Email

Please access your [Odessa College Student E-mail](#), by following the link to either set up or update your account: <http://www.odessa.edu/gmail/>. **All assignments or correspondence will be submitted using your Odessa College email.**

Technical Support

For Blackboard username and password help and for help accessing your online course availability and student email account contact the Student Success Center at 432-335-6878 or online at https://www.odessa.edu/dept/ssc/helpdesk_form.htm.

Important School Policies

For information regarding student support services, academic dishonesty, disciplinary actions, special accommodations, or students' and instructor's right to academic freedom can be found in the Odessa College Student Handbook.