

**Math 2412.5245**  
**Precalculus – Lecture Based**  
**Fall 2011**  
**08/22/11 – 12/10/2011**

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**Class :** ET 124

Welcome to precalculus! This course information will tell you about the course. Almost all of your questions can be answered by reading this sheet. If you still have questions after reading over this information, please contact me! I would be glad to clarify anything for you! Good luck!

### **Course Description**

MATH 2412 Pre-Calculus Math (27.0101.5819) (4-0) 4 hours Presents the study of applications of algebra and trigonometry, elementary functions and their graphs including polynomial, rational, exponential, logarithmic, and trigonometric functions, conic sections, rotation of axes, parametric equations and the use of polar, cylindrical and spherical coordinates. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. The student should be able to probe for mathematical meaning and describe these meanings to others. (SCANS 3, 8, 9, 11)

#### **Prerequisites/Co-requisites**

Prerequisite: MATH 1314 passed with a C or better or equivalent

#### **Scans**

3, 8, 9, 11

### **Course Objectives**

After completing this course, the student should be able to demonstrate competency in:

- 1.0 Algebraic functions and their graphs, including polynomial, rational, exponential, and logarithmic functions.
- 2.0 The basic trigonometric functions in terms of angles, right triangles, circular functions and their graphs.
- 3.0 Trigonometric identities.
- 4.0 Inverse trigonometric functions, trigonometric equations, oblique triangles, vectors and complex numbers.
- 5.0 Topics from analytic geometry, including conic sections, rotation of axes, parametric equations, and the use of polar coordinates.

#### **Required Materials**

Required Textbook: *Precalculus* by Stewart, 6e Edition, Brooks/Cole Cengage Learning

Materials: Scientific Calculator

Graphing paper (optional)

**Attendance:**

Attendance is mandatory in order to succeed in this class.

**Punctuality:**

Be on time for class. Class will start on time.

**Courteous:**

Please be courteous. Be considerate of others.

**Term Grade**

Your term grade will be determined according to the following distribution:

	Homework	Quizzes	Exams 7-8	Final Exam
Percentage	10%	20%	50%	20%
Drops	0	0	0	0

Percentage (%)	Grade
90-100	A
80-89.9	B
70-79.9	C
60-69.9	D
Below 60	F

**Homework**

Homework will be assigned for each section. The homework is due the next class period. All homework should be done in PENCIL. ALL WORK SHOULD BE DONE IN PENCIL.

**Quizzes**

Quizzes will generally be given near the end of class. There will generally be at least one quiz per week.

**Communication**

Communication plays a vital role in a student's success. .

**Exams**

Exams are generally given at the end of each chapter.

**Dropping**

The last day to drop a course at Odessa College for the fall session is November 9.

**Tutoring**

Tutoring is available through Developmental Studies and in the OC Math Lab. The hours for the math lab are Mon-Thurs 8:00 AM – 9:30 PM and Fri 8:00 AM – 1:00 PM.

The OC Math Lab is sometimes open on weekends in the afternoons.

### **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](http://www.odessa.edu/gmail/), 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](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 student's and instructors' right to academic freedom can be found in the Odessa College Student Handbook.

The test dates are tentative.

Chapter	Suggested Date
4	9/1 (Thursday)
5	9/20 (Tuesday)
6	10/6 (Thursday)
7	10/20 (Thursday)
8	10/27 (Thursday)
9	11/10 (Thursday)
11	11/29(Tuesday)
13	12/1 (Thursday)
Final	12/6 ( Tuesday) at 5:30PM-7:20 PM

