

**Math 2412.4013**  
**Pre-calculus – Lecture Based**  
**Fall 2013**  
**08/26/13 – 12/12/2013**

**Instructor:** Debra Lackey  
**Office:** ET 114  
**Phone:** 335-6360  
**E-mail:** dlackey@odessa.edu -- This is the best mode for contacting me.  
**Class :** ET 110

| Office Hours         |  |
|----------------------|--|
| Campus Office Hours: | M-W 9-11<br>T-TH 9:30-11<br>M-W 5-5:30 |
| Online Office Hours: | YOU MAY CONTACT ME BY EMAIL.           |

I have taught at Odessa College for eleven Years. I teach college algebra, plane trigonometry, and pre-calculus.

Welcome to pre-calculus! 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.

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

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

### **Institutional Core Objectives**

- 1 Critical Thinking Skills
- 3 Empirical and Quantitative Skills

### **Learning Outcomes**

Upon successful completion of this course, students will:

1. Demonstrate understanding and knowledge of properties of functions.
2. Recognize and apply algebraic and transcendental functions and solve related equations.
3. Apply graphing techniques to algebraic and transcendental functions.
4. Compute the values of trigonometric functions for key angles in all quadrants of the unit circle measured in both degrees and radians.
5. Prove trigonometric identities.
6. Solve right and oblique triangles.

### **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%      | 15%     | 50%       | 25%        |
| Drops      | 0        | 0       | 0         | 0          |

| Percentage (%) | Grade |
|----------------|-------|
| 89.5-100       | A     |
| 79.5-89        | B     |
| 69.5-79        | C     |
| 59.5-69        | D     |
| Below 59.4     | 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. If absent, make-up quizzes need to be taken within three days of returning.  
Otherwise, you will get a 0 for the quiz.

**Communication**

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

**Exams**

Exams are generally given at the end of each chapter. If absent, make-up tests need to be taken within three days of returning. Otherwise, you will get a 0 for the test.

**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.

**As part of the Design for Completion initiative, your Odessa College Student Success Coach and faculty mentor will help you stay focused and on track to complete your educational goals.**

**If an instructor sees that you might need additional help or success coaching, he or she may submit a Retention Alert. Your Student Success Coach or faculty mentor will contact you to work toward a solution.**

**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/>.

The test dates are tentative.

| Chapter | Suggested Date                          |
|---------|---|
| 4       | 9/05 (Thursday)                         |
| 5       | 9/24 (Tuesday)                          |
| 6       | 10/10 (Thursday)                        |
| 7       | 10/24 (Thursday)                        |
| 8       | 10/31 (Thursday)                        |
| 9       | 11/14 (Thursday)                        |
| 11      | 11/26 (Tuesday)                         |
| 13      | 12/05 (Thursday)                        |
| Final   | 12/10 ( Tuesday) at<br>11:00 AM-1:20 PM |

**Expectations for Engagement for Instructor:**

As an instructor, I understand the importance of clear, timely communication with my students. In order to maintain sufficient communication, I will

- provide my contact information at the beginning of the syllabus;
- respond to all messages within 24 hours if received Monday through Thursday, and within 48 hours if received Friday through Sunday; and,
- notify students of any extended times that I will be unavailable and provide them with alternative contact information (for me or for my supervisor) in case of during the time I am unavailable.

As an instructor, I understand that my students will work to the best of their abilities to fulfill the course requirements. In order to help them in this area, I will

- provide clear information about grading policies and assignment requirements in the course syllabus, and
- communicate any changes to assignments and/or to the course calendar to students as quickly as possible.

As an instructor, I understand that I need to provide regular, timely feedback to students about their performance in the course. To keep students informed about their progress, I will

- post grades for discussion postings within one week of the discussion thread closing.
- provide grades for major assignments within 2 weeks of the due date or at least 3 days before the next major assignment is due, whichever comes first.

Grading Scale:

“A” = 89.5-100

“B” = 79.5-89

“C” = 69.5-79

“D” = 59.5-69

“F” = 0-59.4

### **Student Course Participation**

As a student, I understand that I am responsible for keeping up with the course. To help with this, I will

- identify alternative computer and internet access in case my primary computer crashes or my internet service is unavailable;
- recognize that the college provides free wi-fi and computer labs during regular campus hours to help me with accessing my course; and,
- understand that my instructor does not have to accept my technical issues as a legitimate reason for late or missing work if my equipment or service is unreliable.

As a student, I understand that it is my responsibility to communicate quickly with the instructor any issue or emergency that will impact my involvement with or performance in the class. This includes, but is not limited to

- getting “kicked off” of the system during tests or quizzes;
- having trouble submitting assignments; and
- dealing with a traumatic personal event.

As a student, I understand that it is my responsibility to understand course material and requirements and to keep up with the course calendar. While my instructor is available for help and clarification, I will

- seek out help from my instructor and/or from tutors;
- ask questions if I don’t understand; and
- access my course several times during the week to keep up with assignments and announcements.

### **Course Policies**

Disclaimer

This syllabus is tentative and subject to change in any part at the discretion of the instructor. Any changes will be in accordance with Odessa College policies. Students will be notified of changes, if any, in timely manner.

### **Original Effort**

The work submitted for this course must be original work prepared by the student enrolled in this course. Efforts will be recognized and graded in terms of individual participation and in terms of ability to collaborate with other students in this course.

**Digital Protocol**

Cell phones must be placed on either vibrate or silent mode and are to be accessed in emergency cases only. The use of laptops or any other digital device is permitted in order to facilitate note-taking relative to instruction.

**Attendance Policy**

Students are expected to attend class regularly.

**Grade Inquiry Policy**

It is the responsibility of the individual taking this course to maintain accurate track of assignment submissions and grades. There will be opportunities during the semester to meet with the instructor to discuss your academic progress. Contact the instructor to schedule an appointment. Class time will not be used for grade inquiries. All grades are final.

**General Course Requirements**

1. Attend class and participate.
2. Contribute and cooperate with civility.
3. Submit assignments on time. Late work will not be accepted. Medical and/or family circumstances that warrant an extension on assignments need to be presented to the instructor. Extensions will be allowed at the instructor's discretion.

**Incomplete Policy**

An 'Incomplete' grade may be given only if:

1. The student has passed all completed work
2. If he/she has completed a minimum of 75% of the required coursework. A grade of an "I" will only be assigned when the conditions for completions have been discussed and agreed upon by the instructor and the student.

**Institutional Core Objectives (ICOs)**

Description of Institutional Core Objectives (ICO's)

Given the rapid evolution of necessary knowledge and skills and the need to take into account global, national, state, and local cultures, the core curriculum must ensure that students will develop the essential knowledge and skills they need to be successful in college, in a career, in their communities, and in life. Therefore, with the assistance of the Undergraduate Education Advisory Committee, the Coordinating Board has approved guidelines for a core curriculum for all undergraduate students in Texas.

Through the application and assessment of objectives within the institution's core curriculum, students will gain a foundation of knowledge of human cultures and the physical and natural world; develop principles of personal and social responsibility for living in a diverse world; and advance intellectual and practical skills that are essential for all learning. Appropriate Odessa College faculty periodically evaluates all of the courses listed in the descriptions on the following pages of this catalog and keys them to Odessa College's Institutional Core Objectives (ICOs), as defined by the Texas Higher Education Coordinating Board (THECB). (Source: Odessa College Catalog of Courses 2012-2013, page 73)

**Odessa College's Institutional Core Objectives (ICOs):**

1. Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
2. Communication Skills - to include effective development, interpretation and expression of ideas through written, oral and visual communication
3. Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

4. Teamwork - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
5. Personal Responsibility - to include the ability to connect choices, actions and consequences to ethical decision-making
6. Social Responsibility - to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

### Course Objectives

Upon successful completion of this course, students will:

1. Demonstrate understanding and knowledge of properties of functions.
2. Recognize and apply algebraic and transcendental functions and solve related equations.
3. Apply graphing techniques to algebraic and transcendental functions.
4. Compute the values of trigonometric functions for key angles in all quadrants of the unit circle measured in both degrees and radians.
5. Prove trigonometric identities.
6. Solve right and oblique triangles.

### Learning Outcomes

| Outcome       | ICO  |
|---------------|--|
| 1,2,3,4,5,6,7 | <i>Critical Thinking Skills</i> - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information   |
| 5             | <i>Communication Skills</i> - to include effective development, interpretation and expression of ideas through written, oral and visual communication                                      |
| 1,2,3,4,5,6,7 | <i>Empirical and Quantitative Skills</i> - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions                                |
|               | <i>Teamwork</i> - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal                                      |
|               | <i>Personal Responsibility</i> - to include the ability to connect choices, actions and consequences to ethical decision-making  |
|               | <i>Social Responsibility</i> - to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities |

### Odessa College Policies

#### Tuition Discounts

The “First Course is Free” discount waives standard tuition and fees for the first 3 credit hours taken at Odessa College. The discount applies to high school graduates taking their first class at Odessa College as well as transfer students taking their first class at Odessa College.

The “Academic Progress Discount” provides a 10% tuition discount upon completion of 30 credit hours until reaching 45 credit hours. It provides a 20% discount upon completion of 45 credit hours until reaching 60 credit hours. Student must maintain a 2.0 GPA to remain eligible for the discount.

### Academic Policies

Note that the OC Student Handbook states (page 32) that “[i]n cases of academic dishonesty, the instructor has the authority to impose appropriate scholastic penalties. Complaints or appeals of disciplinary sanctions may be filed in accordance with the college due process procedure. Copies of the college due process procedure are available in the office of The Director of Student Life (CC104).”

For more information on your rights and responsibilities as a student at Odessa College, please refer to the following: The 411 of OC: Student Handbook 2012-2013; Student Rights & Responsibilities  
<http://www.odessa.edu/dept/studenthandbook/handbook.pdf>

### **Scholastic Dishonesty**

Scholastic dishonesty shall constitute a violation of these rules and regulations and is punishable as prescribed by board policies. Scholastic dishonesty shall include, but not be limited to, cheating on a test, plagiarism and collusion.

"Cheating on a test" shall include:

- Copying from another student's test paper
- Using test materials not authorized by the person administering the test.
- Collaborating with or seeking aid from another student during a test without permission from the test administrator.
- Knowingly using, buying, selling, stealing or soliciting, in whole or in part, the contents of an unadministered test.
- The unauthorized transporting or removal, in whole or in part, of the contents of the unadministered test.
- Substituting for another student, or permitting another student to substitute for one's self, to take a test.
- Bribing another person to obtain an unadministered test or information about an unadministered test.
- "Plagiarism" shall be defined as the appropriating, buying, receiving as a gift, or obtaining by any means another's work and the unacknowledged submission or incorporation of it in one's own written work.
- "Collusion" shall be defined as the unauthorized collaboration with another person in preparing written work for fulfillment of course requirements. (Source: Odessa College Student Handbook 2012-2013, page 29-30)

### **Special Populations/Disability Services/Learning Assistance**

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.

Odessa College affirms that it will provide access to programs, services and activities to qualified individuals with known disabilities as required by Section 504 of the Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act of 1990 (ADA), unless doing so poses an undue hardship or fundamentally alters the nature of the program or activity. Disabilities may include hearing, mobility or visual impairments as well as hidden disabilities such as chronic medical conditions (arthritis, cancer, diabetes, heart disease, kidney disorders, lupus, seizure disorders, etc.), learning disabilities or psychiatric or emotional disabilities. A student who comes to Odessa College with diagnosed disabilities which may interfere with learning may receive accommodations when the student requests them and submits proper documentation of the diagnosis. A Request for Accommodations form and guidelines for beginning the request process are available in the OC Help Center or on the Odessa College web site at <http://www.odessa.edu/dept/counseling/disabilities/index.htm>. The college strives to provide a complete and appropriate range of services for students with disabilities such as assistance with testing, registration, information on adaptive and assistive equipment, tutoring, assistance with access and accommodations for the classroom where appropriate. For information regarding services, students with disabilities should contact the Office of Disability Services in the OC Help Center located in Room 204 of the Student Union Building or call 432-335-6433. (Source: Odessa College Catalog of Courses 2012-2013, page 52)

### **Dropping a Course or Withdrawing from College**

Students wishing to drop a non-developmental course may do so online using WebAdvisor, at the Wrangler Express, or Registrar's Office. A student wishing to drop a developmental course or withdraw from college should obtain a drop or withdrawal form from the Wrangler Express or the Registrar's Office. Students are encouraged to consult with instructors prior to dropping a class. Students may not completely withdraw from the college by use of the Web. Students must drop a class or withdraw from college before the official withdrawal date stated in the class schedule. Students who are part of the Armed Forces Reserves may withdraw with a full refund if the withdrawal is due to their being ordered into active duty. A copy of the student's orders must be presented to the Registrar's Office at the time of the withdrawal. For details, please contact the Office of the Registrar. No longer attending class does not automatically constitute withdrawal from that class, nor does a student's notification to an instructor that the student wishes to be dropped. Failure of a student to complete the drop/withdrawal process will result in a grade of "F." (Source: Odessa College Catalog of Courses 2012-2013, page 36). Student Support Services and Technical Support

### Blackboard Support

- I can't log into my Blackboard Course, who do I contact?

Contact the Student Success Center: 432-335-6673 or online at

[https://www.odessa.edu/dept/ssc/helpdesk\\_form.htm](https://www.odessa.edu/dept/ssc/helpdesk_form.htm). The SSC can provide you with your Blackboard login name. If you are not sure what your password is, they can reset your password.

- I'm having a problem in my Blackboard Course, who do I contact?

For any problem that you have in your online course, always contact your Instructor first. Refer to the Instructor's Contact Information area of the Syllabus for their preferred method of contact and the expected response time.

#### Additional Blackboard Help Resources:

| Additional Blackboard Help Resources:               |   |  |
|---|---|--|
| Service   | Assistance Provided   | Available                              |
| Blackboard Help for Students                        | Website with a searchable list of topics on how to navigate and use Blackboard for online courses.  | Online<br>Click <a href="#">here</a> . |
| Blackboard On Demand Learning Center for Students   | This website provides an extensive list of short tutorial videos for student activities performed in Blackboard.  | Online<br>Click <a href="#">here</a> . |
| Blackboard Collaborate                              | First Time Users If you have never used Blackboard Collaborate before, this website provides a system requirements check, configuration instructions, and training and resources area.            | Online<br>Click <a href="#">here</a> . |
| Blackboard Collaborate: Essentials for Participants | This website provides essential information for Participants of Collaborate sessions. Any Collaborate user, whether first-time or experienced, would benefit from reviewing the information here. | Online<br>Click <a href="#">here</a> . |

### Student E-mail Support

- How do I set up, access, or update my Odessa College Student E-mail account?

Go to this website and follow the directions on the page: <http://www.odessa.edu/gmail/>.

- I can't access my student email! I forgot my password!



Contact the Student Success Center: 432-335-6673 or online at [https://www.odessa.edu/dept/ssc/helpdesk\\_form.htm](https://www.odessa.edu/dept/ssc/helpdesk_form.htm). They can provide you with assistance in accessing your student email (created by OC) and can also assist with resetting your student email password. Make sure to have your student ID number available!

Your Blackboard login name is associated with your OC created student email account. All Correspondence for this course will be submitted using your Odessa College student email address.

### Support for Students with Disabilities

How do I contact the Office of Special Populations?

|                 |   |
|-----------------|---|
| Main Number     | 432-335-6861  |
| Campus Location | SUB 204N in the Student Union Building  |
| Email           | Becky Rivera-Weiss - <a href="mailto:brivera@odessa.edu">brivera@odessa.edu</a>   |
| Website         | To find out more about services provided by the Special Populations office, please visit: <a href="http://www.odessa.edu/dept/counseling/disabilities/index.htm">http://www.odessa.edu/dept/counseling/disabilities/index.htm</a> |

### Learning Resources Center (LRC; Library)

- How do I contact the Learning Resource Center?

|                                     |   |
|-------------------------------------|---|
| Main Number                         | 432-335-6640  |
| FAQ Service                         | LibAnswers: <a href="http://libanswers.odessa.edu">http://libanswers.odessa.edu</a>   |
| Contact a Specific OC Librarian     | Pat Quintero at 432/335-6350 or <a href="mailto:pquintero@odessa.edu">pquintero@odessa.edu</a><br>Donna Clark at 432/335-6645 or <a href="mailto:dclark@odessa.edu">dclark@odessa.edu</a><br>Carolyn Petersen at 432/335-6641 or <a href="mailto:cpetersen@odessa.edu">cpetersen@odessa.edu</a> |
| LRC Services and Guidelines Website | <a href="https://www.odessa.edu/dept/library/services/index.htm">https://www.odessa.edu/dept/library/services/index.htm</a>   |

### Equipment and Services Provided:

The Murry H. Fly Learning Resources Center (LRC) supports the college's curriculum resulting in a primary emphasis on each student's individual study and research needs. The faculty and staff work with the LRC's Technical Services and Public Services Departments in choosing materials to support all college programs. More than 59,000 books, 50,000 electronic books, 350 current periodicals, 6,700 media holdings, eight newspapers, and 60 databases are available to enhance the educational process.

| Equipment/Services Available                        | Used For                     | Available                                    |
|---|------------------------------|--|
| Books, videos, CDs                                  | Research                     | On Campus and Online                         |
| Specialized databases not available online for free | Research                     | On Campus and Online                         |
| Magazines, newspapers, & scholarly journals         | Research                     | On Campus and Online                         |
| Computers   | Research & Word Processing   | On Campus                                    |
| Selected textbooks for short-term use               | Course Work                  | On Campus                                    |
| Trained staff                                       | Answer "where do I find?"    | On Campus and Online<br>On Campus and Online |
| Tutorials   | Tips for research strategies | On Campus and Online                         |
| Photocopiers, VHS/DVD players,                      | Course Work                  | On Campus                                    |

|                   |             |           |
|-------------------|-------------|-----------|
| FAX service       |             |           |
| Quiet study areas | Course Work | On Campus |

### **Student Success Center (SSC) / AVID Center**

- How do I contact the Student Success Center?

Appointments are preferred, but walk-ins will be served as soon as possible.

|  |   |
|--|---|
| Main Number                                  | 432-335-6673  |
| Campus Location                              | 1st floor of the Library  |
| Website with Additional Help and Information | <a href="http://www.odessa.edu/dept/ssc/">http://www.odessa.edu/dept/ssc/</a>   |
| Live Online Assistance / Chat                | Click <a href="#">Here</a><br>(If no one is currently available, please put your email and question(s) in the appropriate areas of the form and hit 'send.' Your question(s) will be addressed as soon as an SSC staff member becomes available.) |

### **Equipment and Services Provided:**

The purpose of the Odessa College Student Success Center is to provide assistance to students in meeting their academic and career goals. The SSC strives to continually provide new and updated resources that will empower all Odessa College students to succeed at OC and beyond.

| Equipment/Services Available                         | Used For  | Available  |
|--|---|--|
| Tutoring by CRLA & Avid trained tutors Understanding | Course Work & Motivation  | On Campus and Online<br><a href="#">Click here for more information.</a> |
| Student Information Seminars (SIS)                   | Demo email, Blackboard and SSC resources  | On Campus and Online<br><a href="#">Click here for more information.</a> |
| Study Skills   | Tools needed to succeed   | On Campus and Online<br><a href="#">Click here for more information.</a> |
| Basic Technology                                     | To navigate classes, email, etc.  | On Campus and Online   |
| Plato Web  | Practice for TEAS test and basic math, science, etc.                                | On Campus and Online<br><a href="#">Click here for more information.</a> |
| Project T.I.E.                                       | Practice for GED/COMPASS  | On Campus and Online<br><a href="#">Click here for more information.</a> |
| Student Orientation/Tour                             | Show individual students where their classes will be.                               | On Campus  |
| M.O.R.E.   | Mentoring Program Networking, tips to navigate college life successfully            | On Campus<br><a href="#">Click here for more information.</a>            |
| Smart thinking                                       | Online tutoring service. Connect with an e-structor and interact with a live tutor. | Online<br><a href="#">Click here for more information.</a>               |

### **Veterans Support**

How do I contact the office for Veteran's Outreach?

|                 |  |
|-----------------|--|
| Main Number     | 432-335-6833   |
| Campus Location | 204M (Help Center) in the Student Union Building                           |
| Email           | Gloria Rangel - <a href="mailto:grangel@odessa.edu">grangel@odessa.edu</a> |
| Website         | To find out more about services provided by the Veteran's                  |

|  |   |
|--|---|
|  | Outreach office, please visit:<br><a href="http://www.odessa.edu/dept/counseling/veterans/index.htm">http://www.odessa.edu/dept/counseling/veterans/index.htm</a> |
|--|---|