Cedar Valley College
MATH 2412 – Precalculus

GENERAL INFORMATION
College Name: Cedar Valley College
Division: Math, Science, & Allied Health
Semester/Term & Year: Summer 2 2012

INSTRUCTOR INFORMATION
Name: Mary Merchant
DCCCD e-mail address: mmerchant@dcccd.edu
Telephone: 972-860-8021
Office Number: B216
Office Hours (FT faculty): N/A

COURSE INFORMATION
Course Title: Precalculus
Course Number: MATH 2412
Section Number: 9001
Credit Hours: Four (4)
Class Meeting Time: INET
Class Location: INET

COURSE DESCRIPTION
This course consists of the study of algebraic and trigonometric topics including polynomial, rational, exponential, logarithmic and trigonometric functions and their graphs. Conic sections, polar coordinates, and other topics of analytic geometry will be included.

COURSE PREREQUISITES
MATH 1316.

QUALITY ENHANCEMENT PLAN (QEP)
Cedar Valley College's Quality Enhancement Plan is designed to improve student learning in mathematics. Read more about our QEP at: www.cedarvalleymath.edu/QEP
REQUIRED / RECOMMENDED MATERIALS
MyMathLab Student Access Code. The access code can be purchased at the CVC bookstore or on-line at www.pearsonmylab.com. This code will give you access to the MyMathLab website where much of your work will be done for the course. The MyMathLab website includes an electronic copy of the text, video instruction, and many other helpful features.

The instructor requires either the TI-83, TI-83+, or TI-84 Graphing calculator. Other graphing calculator models may also be sufficient for this course.

ISBN / TEXTBOOK

The text is optional because an e-text is included in the online program MyMathLab. If you do not like to use e-texts, then you should consider purchasing the text.

EXAMS AND ASSIGNMENTS
Students must have reliable internet access as the entire course will be done on-line. Three attempts will be allowed on each homework assignment. You will be given two attempts on each test with the exception of the final exam.

EVALUATION PROCEDURES
Assessment of your performance will be based upon scores from homework assignments and exams. The percentages for each are as follows:

- Homework (MML) 20%
- Quizzes 20%
- Midterm Exam 30%
- Final Exam 30%

The student must have an active My Math Lab account at the conclusion of the semester in order to receive a grade in the course. A temporary access code can NOT be used to complete all course work. If you do not have an active MyMathLab access code at the end of the course, you will receive an F.

GRADING SCALE
Grades for the course will be assigned using the following scale:

  A  90 - 100%
  B  80 - 89%
  C  70 - 79%
  D  60-69%
  F  0 - 59%

COURSE OUTLINE
Unit Outline
1. Graphs, Equations, and Inequalities
2. Functions and Their Graphs
3. Polynomial and Rational Functions
4. Exponential and Logarithmic Equations
5. Systems of Equations and Inequalities
6. Sequences and The Binomial Theorem

| Week 1          | Chapter 2, Sections 2.1 – 2.8  
|                 | Chapter 2 QUIZ  
|                 | Chapter 3, Sections 3.1 – 3.5  
| Week 2          | Chapter 3 QUIZ  
|                 | Chapter 4, Sections 4.1 – 4.8  
|                 | Chapter 4 QUIZ  
|                 | Chapter 5        
| Week 3          | Chapter 5 QUIZ  
|                 | MIDTERM EXAM     
|                 | Chapter 6        
|                 | Chapter 6 Quiz   
| Week 4          | Chapter 7, Sections 7.3 & 7.4  
|                 | Chapter 7 QUIZ   
|                 | Chapter 1, Section 9  
|                 | Chapter 9, Sections 9.1 – 9.4  
|                 | Chapter 9 QUIZ   
|                 | Chapter 10, Sections 10.1 – 10.3 & 10.5  
| Week 5          | Chapter 10 QUIZ  
|                 | FINAL EXAM       

ALL COURSE WORK IS DUE AT 8:00am on Thursday, August 9. No work will be accepted after this deadline!

TUTORING OPPORTUNITIES
There are several learning aids available to you. You are encouraged to utilize any and/or all of the following FREE resources:
1. Tutoring and supervised study in the Math Resource Center B229.
2. Tutoring and supervised study in the Tutoring Center C206 or online at www.tinyurl.com/cvcOTLobby.
3. Tutoring from Special Services L108.

ATTENDANCE POLICY
It is imperative that you register into the MyMathLab program immediately (by July 12). Your registration into my course in MyMathLab will serve as proof of you beginning attendance in the course. Your attendance in the course can affect financial aid (please see financial aid information below).

WITHDRAWAL POLICY
If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar’s Office by August 2. Failure to do so will result in your
receiving a performance grade, usually an “F.” If you drop a class or withdraw from the college before the official drop/withdrawal deadline, you will receive a “W” (Withdraw) in each class dropped. See institutional policies for additional information on withdrawals.

**STUDENT LEARNING OUTCOMES**

1. Use algebraic and trigonometric techniques necessary for calculus.
2. Use vectors to solve problems, both in 2 dimensions and in 3 dimensions.
3. Find partial fraction decomposition and solve nonlinear systems.
4. Analyze conic sections in both rectangular and polar coordinates.
5. Perform operations on complex numbers in rectangular and polar form.
6. Solve problems involving arithmetic or geometric sequences and series.

**GENERAL EDUCATION COMPETENCIES**

This course reinforces some of the Core Curriculum Intellectual Competencies defined by the Texas Higher Education Coordinating Board.

**CRITICAL THINKING:** Critical thinking embraces methods of applying both qualitative and quantitative skills analytically and creatively to subject matter in order to evaluate arguments and to construct alternative strategies. Problem solving is one of the applications of critical thinking, used to address and identified task.

**EMAIL POLICY**

I will make every effort to return all email messages within 48 hours. Please make every effort to communicate clearly, including your name and the course when sending email messages. The more specific your message, the more assistance I can provide.

**INSTITUTIONAL POLICIES**

**ACADEMIC HONESTY**

Academic honesty is expected, and integrity is valued in the Dallas County Community Colleges. Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion.

**ADA STATEMENT**

If you are a student with a disability and/or special needs who requires accommodations, please contact the college Disability Services Office at 972-860-8119.

**EMERGENCY ALERT**

Sign up for DCCCD Emergency Alerts to receive a text-message, e-mail and/or phone call when there is an unscheduled evacuation or closure of a DCCCD campus or office because of weather closures, utility outages, police or other emergencies. Subscribing is free, but standard
text message charges from your cell phone provider will apply.

Please refer to:

http://www.dcccd.edu/current%20students/student%20services/emergalerts/Pages/default.aspx

FINANCIAL AID

Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate after the drop date are also subject to this policy.

HEALTH CENTER SERVICES

Basic first aid for minor cuts and scrapes, insect stings, strains and sprains, heat, etc.

- Over-the-counter medications for headaches, fever, seasonal allergies, and colds
- Over-the-counter medications for mild allergic reactions
- Emergency sanitary pads
- Blood Pressure check
- Coordination with outside health agencies such as Carter BloodCare; Dallas County Health Dept. (HIV/STD testing--free, twice a semester); UT Southwestern mobile mammography; Immunizations once a month for children <19 y.o. from the DCDHHS; Agape Massage; and Employee Wellness Screening
- Rest area for stress relief, migraine headaches, post seizure activity
- AED (Automatic External Defibrillator) for CPR
- Confidential "talks"
- Assists with health related club activities when asked and time permits

RELIGIOUS HOLIDAYS

Absences for observance of a religious holy day are excused. A student whose absence is excused to observe a religious holy day is allowed to take a make-up examination or complete an assignment within a reasonable time after the absence.

REPEATING THIS COURSE

Effective for Fall Semester 2005, the Dallas County Community Colleges will charge additional tuition to students registering the third or subsequent time for a course. This class may not be repeated for the third or subsequent time without paying the additional tuition. Third attempts include courses taken at any of the Dallas County Community Colleges since the Fall 2002 semester. More information is available at: https://www1.dcccd.edu/catalog/ss/oepthird_attempt.cfm
STUDENT CODE OF CONDUCT
As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog. More information is available at https://www1.dcccd.edu/cat1011/cattoc.cfm

TUTORING SERVICES
Math Resource Center (MRC), B229
- Monday through Thursday: 9:00am—2:00pm

WITHDRAWAL POLICY—STOP BEFORE YOU DROP
For students who enrolled in college level courses for the first time in the Fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than six courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated six non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: https://www1.dcccd.edu/coursedops

DISCLAIMER
The instructor reserves the right to amend this syllabus as necessary.