

MAT 186, PRECALCULUS, Fall 2017, 30421
TR 12:30 – 2:10pm, room E225
Elizabeth Godwin

PREREQUISITE: MATH 172, College Algebra
TEXT: PRECALCULUS: Graphs and Models, Coburn and Herdlick
ALEKS 360 Code: A9VFW-QQ3KK
Also required: TI-83 or TI-84 calculator

COURSE

DESCRIPTION: THE COURSE PREPARES FOR STUDY OF CALCULUS. STUDENTS WILL EXPAND THEIR KNOWLEDGE OF ALGEBRAIC AND SOME EARLY TRANSCENDENTAL FUNCTIONS, AND DEVELOP SKILLS REQUIRED FOR HIGHER LEVEL MATH COURSES. TOPICS WILL ALSO INCLUDE: TRIGONOMETRIC FUNCTIONS, TRIGONOMETRIC IDENTITIES AND APPLICATIONS, INTRODUCTORY SEQUENCES AND SERIES.

MEASUREMENTS:	3 tests	100 points each	300
	4 quizzes	see below	100
	ALEKS	see below	100
	Final exam	100 points	100

Final grade = (total points earned/600) *100

Grade equivalents: A 93 – 100, A- 90 – 93, B+ 87 -89, B 83 – 86, B- 80 – 82, C+ 77 – 79, C 73 – 76, C- 70 – 72, D+ 67 – 69. D 63 – 66. D- 60 – 62, F below 60, N if the student completed less than 60% of work.

Attendance: Your attendance in the classroom, participation in classroom work/projects and preparation for each class is required and is essential to success in the course. If you are unable to attend class then I expect you to email me before if possible but afterwards at the very least. This is for your protection. If something happens then you will have written documentation. There will be no makeups for tests, quizzes and written homework assignments. If you are not in class on these days or do not complete them in time then you will get a 0. If an unusual circumstance arises and you provide adequate documentation then I will consider allowing a makeup.

ALEKS:

In this course, students will use an online educational program titled ALEKS 360 (Assessment and LEarning in Knowledge Spaces). This program can be used on any computer with Internet access. An access code for ALEKS 360 is required and may be purchased at the bookstore or online at www.aleks.com. In ALEKS I will assign homework, quizzes and some review problems for you to practice for the quizzes and tests. Also, you will have access to the online textbook so you do not need to purchase a copy of the textbook only an ALEKS code.

Support Services: Tutorial services, peers, or meeting with me for extra help during office hours.

Digication: All students are required to maintain a learning portfolio in Digication that uses the (Three Rivers) College Template.

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Office Hours: Mondays, 11:00-12:00 noon, Tuesdays, 10:30-11:30 am, Wednesdays 2:00 – 3:00 pm and Thursdays, 10:30-11:30 am or by appointment in C206
Email egodwin@trcc.commnet.edu , Phone (860) 215-9452

Class Cancellation: In case of inclement weather, check the college website for class cancellations or call 860-215-9000 for recorded message on the college phone. If for some reason, I need to cancel class I will post an announcement in Blackboard. You should set up your school email so that it will forward to your personal email so you can receive these notifications in a timely manner.

MyCommNet Alert:

MyCommNet is a system that sends text messages and emails to anyone signed up in the event of a campus emergency. Additionally, TRCC sends messages when the college is delayed or closed due to weather. All students are encouraged to sign up for myCommNet Alert. A tutorial is available on the Educational Technology and Distance Learning Students page of the web site. http://www.trcc.commnet.edu/div_it/educationaltechnology/Tutorials/myCommNetAlert/MIR3.html

Plagiarism and Academic

Honesty:

At TRCC, we expect the highest standards of academic honesty. The Board of Trustees' Proscribed Conduct Policy prohibits cheating on examinations, unauthorized collaboration on assignments, unauthorized access to examinations or course materials, plagiarism.

Disabilities

If you have a disability that may affect your progress in this course, please meet with a Disability Service Provider (DSP) as soon as possible. Please note that accommodations cannot be provided until you provide written authorization from a DSP.

College Disabilities Service Provider	
Matt Liscum, Counselor (860) 215-9265 Room A113	<ul style="list-style-type: none">• Learning Disabilities• ADD/ADHD• Autism Spectrum• Mental Health Disabilities
Elizabeth Willcox, Advisor (860) 215-9289 Room A113	<ul style="list-style-type: none">• Medical Disabilities• Mobility Disabilities• Sensory Disability

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BOARD OF REGENTS FOR HIGHTER EDUCATION AND CONNECTICUT STATE COLLEGES AND UNIVERSITIES POLICY REGARDING SEXUAL MISCONDUCT REPORTING, SUPPORT SERVICES AND PROCESSES POLICY

Statement of Policy for Public Act No. 14-11: An Act Concerning Sexual Assault, Stalking and Intimate Partner Violence on Campus:

“The Board of Regents for Higher Education (BOR) in conjunction with the Connecticut State Colleges and Universities (CSCU) is committed to insuring that each member of every BOR governed college and university community has the opportunity to participate fully in the process of education free from acts of sexual misconduct, intimate partner violence and stalking. It is the intent of the BOR and each of its colleges or universities to provide safety, privacy and support to victims of sexual misconduct and intimate partner violence.”

UNITED STATES DEPARTMENT OF EDUCATION AND OFFICE OF CIVIL RIGHTS TITLE IX STATEMENT OF POLICY:

“Title IX of the Education Amendments of 1972 (Title IX) prohibits discrimination based on sex in education programs and activities in federally funded schools at all levels. If any part of a school district or college receives any Federal funds for any purpose, all of the operations of the district or college are covered by Title IX.

Title IX protects students, employees, applicants for admission and employment, and other persons from all forms of sex discrimination, including discrimination based on gender identity or failure to conform to stereotypical notions of masculinity or femininity. All students (as well as other persons) at recipient institutions are protected by Title IX – regardless of their sex, sexual orientation, gender identity, part-or full-time status, disability, race, or national origin-in all aspects of a recipient’s educational programs and activities.”

If any student experiences sexual misconduct or harassment, and/or racial or ethnic discrimination on Three Rivers Community College Campus, or fears for their safety from a threat while on campus, please contact Edward A. Derr, the Diversity Officer and Title IX Coordinator:

Edward A. Derr
Title IX Coordinator and Diversity Officer
Admissions Welcome Center * Office A116
574 New London Turnpike, Norwich CT 06360
860.215.9255 * EDerr@trcc.commnet.edu

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Topics Covered

*Review of Functions/Inverse Functions (transformations, domains, ranges, exponential and logarithmic functions, composition of functions and inverse functions)

Chapter 6: An Introduction to Trigonometric Functions

- 6.1) Angle Measure, Special Triangles, and Special Angles
- 6.2) Unit Circle and the Trigonometry of Real Numbers
- 6.3) Graphs of Sine and Cosine Functions
- 6.4) Graphs of the Cosecant, Secant, Tangent, and Cotangent Functions
- 6.5) Transformations and Applications of Trigonometric Graphs
- 6.6) The Trigonometry of Right Triangles
- 6.7) Trigonometry and the Coordinate Plane
- 6.8) Trigonometric Equation Models

Chapter 7: Trigonometric Identities, Inverses, and Equations

- 7.1) Fundamental Identities and Families of Identities
- 7.2) More on Verifying Identities
- 7.3) The Sum and Difference Identity
- 7.4) The Double-Angle, Half-Angle and Product-to-Sum Identities
- 7.5) The Inverse Trig Functions and Their Applications
- 7.6) Solving Basic Trig Equations
- 7.7) General Trig Equations and Applications

Chapter 8: Applications of Trigonometry

- 8.1) Oblique Triangles and the Law of Sines
- 8.2) The Law of Cosines; the Area of a Triangle
- 8.5) Complex Numbers in Trigonometric Form
- 8.6) De Moivre's Theorem and the Theorem on nth Roots

Chapter 10: Analytic Geometry and the Conic Sections

- 10.1) A Brief Introduction to Analytic Geometry
- 10.2) The Circle and Ellipse
- 10.3) The Hyperbola
- 10.4) The Analytic Parabola
- 10.5) Nonlinear Systems of Equations and Inequalities

Chapter 11: Additional Topics in Algebra (time permitting)

- 11.1) Sequences and Series
- 11.2) Arithmetic Sequences
- 11.3) Geometric Sequences
- 11.4) Mathematical Induction