

SUMMER QUARTER, 2008

COURSE: MAT 194: Precalculus CRN: **10348**

CREDIT HOURS: 5

INSTRUCTOR: SAM KWAKYE

PHONE: 770-528 - 4483

E-MAIL: skwakye@chat-tec.com

OFFICE HOURS: ROOM B209.6

M,W 3:00 PM. - 5:00 PM.

T,TR 3:00 P.M. - 5:00 P.M.

PREREQUISITE: MAT 191 or placement by diagnostic testing.

TEXT: Thinkwell Precalculus

CALCULATOR: A TI-83 /86 is required.

This is a hybrid course, that is, the class meets once a week.

COURSE DESCRIPTION: This course prepares students for Calculus. The topics include an intensive review of polynomial, rational, exponential, logarithmic, and trigonometric functions and their graphs. Applications include simple maximum and minimum problems, exponential growth and decay.

COURSE OBJECTIVES: After completing the course you should be able to do the following :

- 1) Recognize what a function is.
- 2) Graph functions using the graphing calculator.
- 3) Define graphs- linear, quadratic, polynomial, rational, exponential, and logarithmic functions
- 4) Graph sine and cosine functions.
- 5) Graph other trigonometric functions.
- 6) Define and apply inverse trigonometric functions.
- 7) Utilize trigonometric identities.
- 8) Apply the laws of sines and cosines.
- 9) Define and apply vectors and polar representation of complex numbers.

GRADING:

There will be three (3) in-class tests worth 70%

Attendance 10%

Homework 20% The Homework will be done on the computer

. A student's final grade will be determined as follows:

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

WORK ETHICS: Work ethics evaluation is designed as a constructive tool to teach the skills and habits that a student will need to be successful in the world of work. The evaluation process consists of a formal report at mid-term and at the end of the quarter. A work ethics grade of 0, 1, 2, or 3 will be assigned to students in the course in accordance with Georgia Department of Technical and Adult Education standards. The work ethics grade will be displayed on the student's official transcript but will not affect the academic grade point average.

MAKE-UP: If you can not take a test, you **MUST** call my office and leave a message on the answering machine no later than the scheduled exam date. Failure to do so will result in a grade of **ZERO** on the test. A valid excuse with proof is required for taking a make-up test. Make-up tests must be taken one week from the scheduled date.

ABSENCES: You are expected to be present for all scheduled classes.

WITHDRAWAL: You are responsible for your own withdrawal. See the Institution's policy on the web..

PLAGIARISM: Plagiarism is the representation of the ideas or writings of another as your own. The penalty for plagiarism is failure of the course.

NOTICE: 1) Offensive statements regarding one's race, sex, creed, national origin, physical disability or mental disability are not appropriate and will not be tolerated. These statements may be considered a violation of the standards of conduct as stated in the current catalog on page 37.

2) No food or drinks in classrooms or labs.

3) All phones must be turned off during class hours.

Disability Statement: An individual with a disability who may require assistance or accommodation in order to participate in or receive the benefit of a service, program or activity, or who may desire more information may contact 770 528 4529.

WARRANTY: Any graduate of CTC who is deficient in a competency identified in the state program standard shall be retrained at the request of the employer at no cost to the employer or employee for tuition or instructional fees. This warranty is valid for 2 consecutive years following the student's date of graduation.

NOTE; Turn all cellular phones off when you are in class.

