FREDERICK COMMUNITY COLLEGE
MA 111 Precalculus
Fall 2006
www.geocities.com/fccmath1

Instructor Information:

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Office Hours: 10-11, M/W 11-12, T/Th	Campus Mail Box: # 153

Course Information:

Credits: 4	Last Day to Drop: 6 Nov, 2006
Prerequisites: MA 092 or equiv	Co-requisites: None
Meeting Day(s): T/Th	Meeting Times: 1-2:40

Course Description:

A pre-calculus course covering college algebra and trigonometry topics with a graphing approach. Topics include right triangle trigonometry, circular trigonometric functions, inverse trigonometric functions, exponential functions, power functions, logarithmic functions, and polynomial functions and their zeros

Core Learning Outcomes:

Students will be able to...

1. articulate the concepts of pre-calculus. This will be accomplished through writing and speaking in effective, organized, clear, and grammatically correct English appropriate for mathematics. (gen ed obj. 1)
2. interpret and analyze tables, graphs, and diagrams to convey quantitative information and solve pre-calculus problems. (gen ed obj. 13)
3. perform mathematical operations and apply them to practical situations. (gen ed obj. 11)
4. generate and evaluate alternative solutions to pre-calculus problems. (gen ed obj.5)
5. demonstrate a variety of problem-solving techniques using different mathematical tools and alternative representations of numerical and analytical concepts with application to numerical data. (gen ed obj. 12)
6. use the technology of a changing world appropriate to pre-calculus mathematics. (gen ed obj. 19, 21)
7. display academic honesty and adhere to professional standards in their fields. (gen ed obj.23)

Specific Learning Outcomes:

Student will be able to…
1. model real world situations with linear, polynomial, exponential, logarithmic and trigonometric functions.
2. relate the characteristic features of the graphs of linear, polynomial, exponential, logarithmic and trigonometric functions to their equations.
3. algebraically manipulate and solve linear, polynomial, exponential, logarithmic and trigonometric equations.
4. use technology to investigate and solve algebraic and transcendental functions and equations.

Instructional Methods:

1. The lecture method will be the primary technique utilized in the course, however time will be allocated for individual, problem solving sessions.
2. Student participation will be an important part of the course. It will be assumed the reading assignment of text material shown in the Topical Outline, will be done prior to class to allow for appropriate interaction.
3. Class announcements/comments will be made on the Course Announcements page, of my website **www.geocities.com/fccmath1** On the site, look for the course and time the class is held, and then click on COURSE ANNOUNCEMENTS. ***Students are responsible for all announcements on the announcements' page***.
4. We will have ***student homework presentations*** the first class of the week. The names of the students doing the presentations along with the specific problems assigned, will also be on the Course Announcement's page.
5. We will also have ***weekly, in-class quizzes*** the second class of the week, based upon the previous class' material. They will be nominally 10 minutes in length.

Computer Locations:

FCC has computers in at least the following locations that are available for student use.
LRC (library): L 220
Writing Center: L 106

Text and Calculator for the course:

Course Text : Functions Modeling Change: A Preparation for Calculus, Connally, et al. , 2nd Edition, Wiley
Calculator: TI 83+ or TI 84 Graphing Calculator
Other calculators can be used, but all instructions will be given per the TI 83+.

Evaluation Methods for the course:

Tests/Quizzes	Weight
Test 1	20%
Test 2	20%
Test 3	20%
Test 4	20%
Quizzes/Presentations	20%

T	On tests, all significant work must be shown on all problems requiring calculations. ***No credit will be given for problems with correct answers, without supporting calculations.***
T	***There will be no make-ups for missed tests, unless prior (to the test) notification is given and approval obtained.*** If a test is missed, it's the ***students responsibility*** to request a make-up test. Make-up tests must be completed within one week of the date of the original exam.
T	There will be no make-ups for the last or final exam.
T	All tests belong to FCC and will be returned to the professor, after review in class.
T	There will be weekly, in-class quizzes and homework presentations. There will be NO MAKE-UPS for missed quizzes/presentations.
T	Informal credit may be awarded for classroom participation.
T	Course grading will conform to the following scale: A: 90-100 B: 80 - 89 C: 70- 79 D: 60 - 69 F: Below 60
T	A grade of "C" or better is required in MA 111, to go on to MA 210, Calculus I.
T	All tests will be in-class exams. Maximum time allowed for tests will be 2 hours.

Progress Report:

By the end of the sixth week the student will know by virtue of tests/quizzes taken, their grade in the course.

Attendance Policy:

The College attendance policy states: "Students are expected to attend all class sessions except in cases of emergency, religious holidays or participation in official College functions. In these cases, notification or verification, if requested, well be given to the instructor by the student."

School Closures:

FCC does close occasionally due to inclement weather or unforseen circumstances. If there is any question as to whether the college is open; FIND OUT before you come in!!
Radio
TV
301 846 2583
www.frederick.edu
My web site for any consequences!

Honesty Policy:

Standards of student conduct and disciplinary policies are outlined in the College Policies section of the catalog. At a minimum, any student/s guilty of cheating on a in-class quiz or exam, will receive an "F" grade for the course.