

Syllabus --- Spring 2012

MATH 101A (01) 051929 — CALCULUS WITH ANALYTIC GEOMETRY, 5 UNITS

MEETING: MTWThF 6:50 am – 7:50 am in room HH 209

INSTRUCTOR: Anh Nguyen anguyen@ohlone.edu

WEBSITE: www.ohlone.edu/people/anguyen/

OFFICE HOURS: Monday & Friday: 10:30 AM – 11:30 AM in the Math Learning Center (Room HH 219)
Friday: 12:00 PM – 3:00 PM in 8309

OFFICE PHONE: (510) – 979 –7449

TEXTBOOK:

Calculus Early Transcendental Functions, Third Edition by Robert T. Smith and Roland B. Minton. You also need a graphing calculator for this course.

ISBN-13 9780072869538 (complete text)

ISBN-13 9780073309439 (single variable only)

COURSE OBJECTIVES:

This course includes a review of functions and graphs; elements of analytic geometry, limits, continuity, differentiation of algebraic and trigonometric functions, applications of the derivative, introduction to integration and some applications of the definite integral.

STUDENT LEARNING OUTCOMES:

Upon successful completion of this course, the student will have acquired the following knowledge and skills:

- Develop a high-level understanding of the fundamental concepts of Calculus including functions, limits, continuity, differentiation and integration.
- Use and interpret the derivative in algebraic, graphical, and numerical contexts to model and solve optimization / related rate problems.
- Approximate the derivative of a function using the limit definition.
- Compute the derivative, antiderivative, and definite integral of standard functions using various analytical and numerical techniques.
- Use the antiderivative and the Fundamental Theorem of Calculus to demonstrate the connection between derivatives and integrals.

SECTION COVERAGE:

Cover Chapters 0 to 4 (omit 0.6, 1.7 & 3.9)
Limited coverage of 1.6

CLASSROOM INSTRUCTION:

Attendance:

You must come to class regularly because sometimes we have practice problems right after the lecture. You will earn points for those problems, and there will be no make-ups if you missed. Also, you will receive one point for each class you attend by being on time and attending the whole class.

It is college policy that if your cumulative absences equal or exceed the equivalent of two weeks of class, you may be dropped from the class. If you decide not to continue in the class, it is your responsibility to withdraw from the class. Failure to do so could result in an F grade for the course.

Decorum:

Please be prepared to begin no later than the beginning of the hour and work steadily for the full period. Be prepared daily with every thing you need. Silence all pagers and cell phones. If you have any problems with me, with another student, or with the way the class is structured, let me know so we can discuss the matter outside of class. Please do not talk in class. It is very hard for me to teach and hard for other students to learn.

Scholastic Dishonesty:

Cheating is not tolerated in college courses and will be prosecuted in accordance with college procedures and regulations.

Drop-In Tutoring:

The Math Learning Center is located in Hyman Hall, on the second floor, room 218 and 219. It is a place where you can get tutoring from instructors or student tutor, study, or use Computers. The service is free and you do not need to sign up in advance.

Hours of operation for Fremont Campus Math Learning Center:

Monday – Thursday: 9:00 am – 6:00 pm

Friday: 9:00 am – 1:00 pm

Weekends, Breaks, and Holidays: Closed

Hours of operation for Newark Campus Math Learning Center:

Monday – Thursday: 10:00am – 6:00 pm

Weekends, Breaks, and Holidays: Closed

When you come to the Math Learning Center you will see a log-in computer near the door. All students using the Math Learning Center must log in and out on this computer on each visit.

Computer Programs:

The Math Learning Center (room HH 218 and 219) has computers and software to help you understand and practice your math.

Quizzes & Homework:

Homework will be assigned regularly. I will spend at least 15 minutes to answer your homework questions at every class meeting. I'll not collect the homework. There will be quizzes almost every week. The quizzes are similar to the homework. I will drop one lowest quiz score.

Tests:

There will be 5 tests during this semester. The tests will be given after each chapter.

A make-up test is given only if you have a very serious reason (with a proof), and only when the arrangement is made in advance. If you cannot take an exam for a very serious reason, you must contact me within 24 hours. Otherwise you will receive a **Zero** for that test. The final exam score will be replaced for the lowest test score.

Grading:

Class work: 5%
Quizzes: 30%
Tests: 45%
Final: 20%.

Final for this class will be on Wednesday, May 16th, from 7:00 am – 9:00 am.