

Syllabus for Fundamentals of College Math

Math LASM 802

Monday Wednesday Y 415

Professor John Jernigan

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Office: B2-25C 17th and Spring Garden

Text: W. M. Priestley. Calculus: a Liberal Art?

This course will cover material normally found in a one-semester calculus course: Limits, Derivatives and their applications, Integrals, Antiderivatives and the Fundamental Theorem of Calculus.

As there are no prerequisites for this class we will concentrate on simple algebraic functions and their applications. We will dispense with transcendental functions (trigonometry, logs, exponentials) which somewhat limits our applications but allows us time to focus more on concepts. Although the text does not assume much math background, it does assume a good deal of intelligence on the part of the reader. It is essential that you read the text, and work through the problems. This is the essence of learning mathematics.

Grading will be as follows: Homework will count for 40%, brief daily quizzes 40%, final 20%. There will be no makeup quizzes given, so attendance is important. Any student absent for more than four classes will receive an F.

As the homework is the lion's share of the grade, a few comments are in order. First, homework should be handed in on time. Late homework will not be accepted. Secondly, it should be neat and legible. It is a reflection of the time and effort spent on the class and will be graded accordingly. Finally, please staple any homework that is more than one page. You may do the homework in any way you find comfortable: by yourself, in a group, or with any outside help. However, the work you hand in should be your own.

My office hours at Community College of Philadelphia are Monday, Wednesday and Friday 12:15 - 2:15. At U Arts I will be available after class or before class if you make an appointment.

This syllabus, your homework schedule, past and *future* quizzes are at the web address above.

As much as possible we will try to adhere to the following schedule:

September 7, 12, 14, 19	Chapter 1, Variables, functions and limits
September 21, 26, 28, October 3	Chapter 2, Pre-calculus math
October 10, 17, 19, 24, 26	Chapter 4, Derivatives
October 31, November 2, 7, 9	Chapter 5, Techniques of optimization
November 14, 16 21, 23, 26	Chapter 6, Instantaneous rates
November 30, December 5, 7, 12	Chapter 7, Integrals and anti-derivatives
December 14, Final	