

*Instructor's Syllabus***MATH 2320**

Catalog Description:

MATH 2320. Calculus and Analytic Geometry II (5) MATH 1310 continued. Techniques of integration, sequences and series, vector valued functions, analytic geometry. Prerequisite: Grade of C or higher in MATH 1310 or 1350.

MATH 2320 is the second of three courses in the standard calculus sequence at BGSU. A grade of C or higher in MATH 1310 or 1350 is required to take Math 2320. The D grade is assigned with this prerequisite in mind so you will be doing students a disservice if you allow them to stay without satisfying the prerequisite. Similarly, the grade of D should be used whenever you feel a student is not adequately prepared for Math 2330 but has earned credit for Math 2320.

Students with credit for MATH 1260 occasionally register for this course. They have a hard time adjusting to MATH 2320, and should be advised to enroll in MATH 1310. You may allow truly exceptional students to remain in Math 2320 with the option of dropping back to MATH 1310 after a couple of weeks.

The textbook:

Smith and Minton, *Calculus*, **Second Edition**, McGraw-Hill, **2002**.

This course now includes a graphing calculator and CAS component using Maple. John Gresser's revised Maple manual will be available for your use and will be available in the bookstore for the students.

MATH 2320 includes most of the topics from Chapters 6-9 from the text. **You have the option of skimming or deleting nonessential topics from the text.** If you skim or delete topics don't omit ideas essential to Math 2330, 3370 and 4410. Use your best judgement and keep your eye on the calendar. Summer instructors are responsible for conversion.

	Pages	Days
Chapter 6: Exponentials, Logarithms and other Transcendental Functions	74	22
Chapter 7: Integration	66	17
Chapter 8: Infinite Series	100	21
Chapter 9: Parametric Equations and Polar Coordinates	66	14
Total:	306	74