

Math230 §1 Summer 2004 Syllabus (or the Riot Act)

My name is James Barton, I'm a Grad student here studying for my PhD in maths. Warning; I am an Australian thus do spell things differently and also consider the Imperial system to be barbaric. While I'm introducing myself it is very nice that some of you call me Professor, however it is unnecessary and incorrect. James will do nicely.

Text

The text for this course will be *Calculus*, 5th Edition, by James Stewart, published by Thomson. It should be the same textbook as you used for 140 and 141 (assuming you took them at PSU), but they recently changed to this book. Old editions are fine to use and similar to the current one. The old book written by Thomas and Finney (and in fact almost any book titled "Calculus") should also be able to get you through this course, but please talk to me before using, or buying, these books.

Course Description

The course will cover three dimensional vectors, partial differentiation, double and triple integrals, integral vector calculus. The culmination will be Stoke's, Green's and The Divergence Theorems.

Contact Details

The best way to get in touch with me is email, my address is "barton@math.psu.edu". You can of course attempt to find me in 4 Osmond or in a random location (I'm sometimes there). The phone number in the above office is 863-9674. There is also a webpage at "<http://www.math.psu.edu/barton/>", which will have all the assignments, homework and pretty much anything I give you. You are encouraged to talk to me; if at times I am too busy I can make a time to see you. If you need or want help you have to ask me; I am not going to come and find you.

Office Hours

Office hours will be held in my office (4 Osmond) at the following times: Monday, Tuesday, Wednesday and Friday from 14:00-15:00.

Assessment

There will be 2 midterm exams and a final: the midterms will be evening exams starting at 18:30 and ending at 19:45. Taking a makeup exam without a valid excuse will incur a 20% penalty. There will also be 4 assignments, each worth 25 points, which will be available long before the due date. There will be no extensions under any but the most dire and extreme of circumstances. Please do not ask any questions about a curve or standardization of grades.

Type:	Date:	Value:
Mid-Term 1	30-JUN-2004	100
Mid-Term 2	21-JUL-2004	100
Final	13 AUG-2004	150
Assignment 1	25-JUN-2004	25
Assignment 2	09-JUL-2004	25
Assignment 3	23-JUL-2004	25
Assignment 4	04-AUG-2004	25
TOTAL		450

With the following letter grade assignments;

A	A-	B+	B	B-	C+	C	D
90%	87%	84%	80%	77%	74%	70%	60%

I do not collect weekly homework; you should still be doing exercises (beyond the assignments) outside of class. It is your choice as to whether you do this; I am not going to stand over you and make you work. Nor will there be any form of in class assessment; you are encouraged to ask questions, contribute and be present. It is completely your choice and responsibility what you do in this class and the grade you receive. You will get out of this course what you put in. It is not my job to force you to work, my job is to be available if you want do something.

Course Outline

The following is only meant as a guide and might change throughout the semester, it probably won't though. We will be covering the following sections from the aforementioned text:

Chap. 13 13.1-13.7	Vectors and the geometry of space. Three dimensional coordinates, dot and cross product.
Chap. 14 14.1-14.4	Vector Functions. Vector functions and curves.
Chap. 15 15.1-15.8	Partial Derivatives. Limits, the chain rule and Lagrange multipliers.
Chap. 16 16.1-16.9	Multiple Integrals. Double integrals, triple integrals and areas.
Chap. 17 17.1-17.10	Vector Calculus. Green's, Stoke's and the divergence theorems.

Academic Integrity

The following is taken directly from PSU Policy 49-20:

“Academic dishonesty includes, but is not limited to, cheating, plagiarizing, . . . A student charged with academic dishonesty will be given oral or written notice of the charge by the instructor. If the student believes that they have been falsely accused, they should seek redress through informal discussions with the instructor, the department head, dean or campus executive officer. If the instructor believes that the infraction is sufficiently serious to warrant the referral of the case to Judicial Affairs, or if the instructor will award a final grade of F in the course because of the infraction, the student and instructor will be afforded formal due process procedures.”