

## MATHEMATICS 46

SPRING, 2009

**Dr Stone** 2312 Ingersoll  
951-5600 x2731 (or 951-5246, Maths Dept Office)  
dstone@brooklyn.cuny.edu

**Office Hours:** Tues. & Thurs. 2:30–3:15 or by appointment.

**Prerequisites:** The official prerequisites are Maths 14.1 and CIS 1.5. I shall require you to be familiar with calculus (through Maths 4.3) and linear algebra (Maths 10.1); and you will be expected to **review these subjects as necessary**, on your own.

**Text:** *The Mathematica Primer*, K. R. Coombes et al, Cambridge University Press, 1998. I shall also provide many handouts. And I shall put lecture notes, homework assignments, Mathematica notebooks, etc on the Blackboard site for the course.

Those of you with a bit more experience programming computers, might also find useful *Theory and Problems of MATHEMATICA*, Eugene Don, Schaum's Outline Series, McGraw-Hill, 2001. This book is optional, and not expensive.

**I need a blank computer CD from each of you as soon as possible**, so that the student version of Mathematica can be copied to it. The purpose of the CD is to enable you to install Mathematica **to a home computer (NOT at your workplace)**.

**Your name must appear on my class roster** for you to obtain this CD of Mathematica.

Of course Mathematica is also available at many places on campus.

You will need a second computer CD to store your Mathematica notebooks.

**Objectives of the course, Syllabus and Significant Dates:** These are posted on the Blackboard site. Please read them immediately.

**Assignments** will be assigned roughly every week. Each assignment will have two parts: **Work for Discussion**, and **Work to Turn in**.

**Work for Discussion** on a given topic will be assigned right after that topic has been taught. It will be due one week later, but you will **not hand it in**, and it will **not be graded**. Instead, we shall (if you want to do so) spend some class time discussing some of these problems. This work and the class work will prepare you for...

...**Work to Turn In** on a topic. This will be assigned right after we have had a

chance to go over the Work for Discussion on that topic. It will be due a week later, to be turned in for grading. Your work must be **legible**, and you must **explain in correct English** what you are doing and why you are making the calculations you do.

**Please start each problem on a fresh page.**

**LATE WORK MAY BE PENALISED.**

At the end of the semester, I shall drop your lowest Work to Turn In score.

**Class Work:** From time to time you will be asked to work together in groups of two or three students during class time on a problem. I

*Advantages of working in groups:*

- you become active learners instead of passive listeners;
- you may feel more free to ask questions of fellow-students than of me, on the one hand; and, on the other, answering your fellow-students' questions reinforces the material in your own mind and helps you understand it better;
- group study is currently a hot topic in the schools, and you will benefit from having personal experience of that mode of learning.

**Term paper:** This will be due at the end of the semester. Details will be provided in a future handout.

**Assessment:** (approximately)

Homework.....	30%
Midterm exam (probably take-home).....	25%
Final exam (probably take-home).....	35%
Term paper.....	10%

### **Cheating and plagiarism**

The faculty and administration of Brooklyn College support an environment free from cheating and plagiarism. Each student is responsible for being aware of what constitutes cheating and plagiarism and for avoiding both. The complete text of the CUNY Academic Integrity Policy and the Brooklyn College procedure for implementing that policy can be found at this site: <http://www.brooklyn.cuny.edu/bc/policies>. If a faculty member suspects a violation of academic integrity and, upon investigation, confirms that violation, or if the student admits the violation, the faculty member **MUST** report the violation.

### **Students with disabilities**

In order to receive disability-related academic accommodations students must first be registered with the Center for Student Disability Services. Students who have a documented disability or suspect they may have a disability are invited to set up an appointment with the Director of the Center for Student Disability Services, Ms. Valerie Stewart-Lovell at 718-951-5538. If you have already registered with the Center for Student Disability Services please provide your professor with the course accommodation form and discuss your specific accommodation with him/her.

## **Academic Regulations**

All students should read carefully and thoroughly the 2007-2010 Brooklyn College Bulletin, especially pp. 35-51, pp. 52-59, and pp. 74-83, for a complete listing of academic regulations of the College.