

MATH 2730 SEQUENCES AND SERIES January– April 2008

- Instructor:** Sasho Kalajdzievski
434 Machray Hall
Phone: 474-6929
E-mail: sasho@cc.umanitoba.ca
- Text:** J. Stewart, “Multivariable Calculus” (fifth edition)
(You can also use the complete version of the book “Calculus 5e” by the same author.)
- Office hours:** Mondays and Wednesdays 9:30-10:30 am
Other times by appointment
- Course content:**
- (1). Convergence of infinite sequences and series, integral test, estimate of sums, comparison tests, alternating series, absolute convergence, ratio and root tests
 - (2). Power series, representation of functions as power series, intervals of convergence, differentiation and integration of power series, binomial series
 - (3). Applications of power series in computing definite integrals and solving differential equations
 - (4). (If time permits) introduction to Fourier series

The material is covered in Chapter 12 of the text, together with section 18.4. Some printed notes (on topics not covered in the textbook) will be distributed to you in the class.

Grading:	Test 1 (in class)	February 6 (Wednesday)	20%
	Test 2 (in class)	March 12 (Wednesday)	20%
	Final exam (2 hrs)	April (time to be announced)	60%

The **dates for the tests** are **tentative** and may change. **There will be no makeup tests.** A missed test will be given a mark of zero unless acceptable reasons are provided, together with evidence (e.g. letter from a medical doctor), in which case the mark will be adjusted.

Web pages:

<http://server.maths.umanitoba.ca/homepages/sasho/>

The main page: contains links to old and new courses, including this one..

http://server.maths.umanitoba.ca/homepages/sasho/CurentCourses/2730_2008/2730_2008.html

A page dedicated to this course, this section.

<http://home.cc.umanitoba.ca/cgi-bin/discus/discus.cgi>

A discussion page: a place to ask questions and look for answers. Check it out!

<http://webware.cc.umanitoba.ca:8080/webMathematica/MY.html>

WebMathematica Page: contains links to interactive pages related to various courses

I am required to draw your attention to the university policy concerning plagiarism and cheating. Acts of academic dishonesty include bringing unauthorized materials into a test or exam, copying from another student, plagiarism and examination personation. You are advised to read section 7 (Academic Integrity) and section 4.2.8 (Examinations: Personations) in the "General Academic Regulations and Requirements" of the current Undergraduate Calendar.