Math 314 (Mathematical Modeling I).
Syllabus (Fall Semester 2003)

Section: 1,
Time: 1:00-1:50,
Room: A&S 200.

Instructor: Dr. Artem Zvavitch
Office: Math. Science Bldg. Rm. 217
Phone Numbers: (573)-882-4884
E-mail: zvavitch@math.missouri.edu
WWW: http://www.math.missouri.edu/~zvavitch/

Office Hours: 10:00-11:00 am, Monday and Wednesday, or by appointment


Plan:

1. Introduction to probability theory: sample space and events, probabilities on events, conditional probability, independence, random variables, expectation, conditional expectation. Simple applications to Computer Science and Modeling. "Simple" gambling.


3. Pseudo-Random Generators: i.e. How one can generate a "random" structure on Computer, and why do we need this.


5. Statistics: basic principles of mathematical statistics and applications to Economics and Experiment Modeling.

Grading Policy: 50% for your homeworks, 50% for final project (we will choose a particular project for each student depending on his/her interests or “big” final homework)

If you have any problem with this course, please report it to Professor Michael Pang (course coordinator and the director of Undergraduate Studies) either by phone (882-0322) or by e-mail (pangm@math.missouri.edu).

Disability Statement: If you need accommodations because of a disability, if you have emergency medical information to share with me, or if you
need special arrangements in case the building must be evacuated, please inform me immediately. Please see me privately after class, or at my office. To request academic accommodations (for example, a note taker), students must also register with Disability Services, AO38 Brady Commons, 882-4696. It is the campus office responsible for reviewing documentation provided by students requesting academic accommodations, and for accommodations planning in cooperation with students and instructors, as needed and consistent with course requirements. Another resource, MU’s Adaptive Computing Technology Center, 884-2828, is available to provide computing assistance to students with disabilities. For more information about the rights of people with disabilities, please see ada.missouri.edu or call 884-7278.

**Academic Dishonesty:** Academic honesty is fundamental to the activities and principles of a university. All members of the academic community must be confident that each person’s work has been responsibly and honorably acquired, developed, and presented. Any effort to gain an advantage not given to all students is dishonest whether or not the effort is successful. The academic community regards academic dishonesty as an extremely serious matter, with serious consequences that range from probation to expulsion. When in doubt about plagiarism, paraphrasing, quoting, or collaboration, consult the course instructor.