STUDENT SYLLABUS　　　MAA 6416–01 Functional Analysis　　　Fall 2005

- Web Page: http://www.math.fsu.edu/∼bellenot/class/f05/fun

- Professor: Dr. Steven Bellenot, 223 Love, phone 644-7405, email bellenot@math.fsu.edu

- Class schedule: MWF 10:10-11:00, MW in 107 Love, F in 112 MCH

- Office hours: MW 9:00-10:00 or by appointment

ELIGIBILITY. Advance Calculus is the prerequisite.

TEXTS. Kolmogorov and Fomin, *Functional Analysis, Vol1 Metric and Normed Spaces* and Griffel, *Applied Functional Analysis*

COURSE CONTENT. We will follow Kolmogorov but pick problems from Griffel.

COURSE OBJECTIVES. The purpose of this course is to introduce students to both theory and applications of Functional Analysis.

ATTENDANCE. Attendance and class participation will be factors in determining the final grade. No food or drinks are allowed in the classroom.

GRADING. Grading is based on the easy going 85% A, 70% B, 55% C, 40% D system. There will be NO tests. Roughly 20% of your grade will be a project and the rest will be homework.

PROJECTS. Each student will do a project on a pre-approved topic either in functional analysis or an applications of functional analysis. The project's grade will be determined on both the many page document (at least 5 and usually 10-20) and the in class oral presentation. Presentations are the last week and a half of classes. The project is due Monday, November 28, the day after the Thanksgiving break. The project is 20% of your grade.

HOMEWORK. The remaining 80% of your grade will be determined by homework problems. Some problems (most, but not all) will be graded on a 10 point scale. Neatness and clearity presentation are important. Only the top 90% of your graded homework is used to compute your homework average. Generally four – five homework problems will be assigned each Monday and due the following Monday. Homework is assigned on our web page. Late homework is not accepted.

HOMEWORK RULES. Your **OWN** work, written in clear English. Neatly typed or writtin in ink on one side of standard 8.5 by 11 paper. Multiple pages must be stapled and **NOT** dog-eared or paper clipped. Discussion about the homework problems with other students or the professor is permissible, but the final output needs to be uniquely yours.

HONOR CODE. The Academic Honor System of The Florida State University is based on the premise that each student has the responsibility 1) to uphold the highest standards of academic integrity in the student's own work, 2) to refuse to tolerate violations of academic integrity in the University community, and 3) to foster a high sense of integrity and social responsibility on the part of the University community. Please note that violations of this Academic Honor System will not be tolerated in this class. Specifically, incidents of plagiarism of any type or referring to any unauthorized material during examinations will be rigorously pursued by this instructor. Before submitting any work for this class, please read the "Academic Honor System" in its entirety (as found in the <u>FSU General Bulletin</u> and in the <u>FSU Student Handbook</u> and ask the instructor to clarify any of its expectations that you do no understand.

AMERICAN DISABILITIES ACT. Students with disabilities needing academic accommodations should: 1) register with and provide documentation to the Student Disability Resource Center (SDRC); 2) bring a letter to the instructor from SDRC indicating you need academic accommodations. This should be done within the first week of class.