COURSE NAME: **Topics in Mathematical Sciences** (MAP6990 Sections 6167, 6193).

INSTRUCTOR: Dr. Raid Amin (phone: 474-3014 and email: ramin@uwf.edu)

LECTURE TIMES: TR 5:30pm-8:15pm

ELLUMINATE: This class will be taught simultaneously as a face to face class and as a distance class in which all students must log in during the lecture times.

TARGET AUDIENCE: This course will accommodate and welcome students from a variety of disciplines. The assignments will differ for the students based on their chosen discipline.

COURSE CONTENT:

1. Multivariate methods applied with SAS to the analysis of data sets. I will cover Principal Components Analysis, Factor Analysis, Multivariate Analysis of Variance and other topics. Emphasis will be on the *applications* and not on any theoretical results.
2. Students will work in groups with the software SaTScan on analyzing data from some applications. The entire class will hold discussions on each project.
3. I will instruct on how to use the Statistical Analysis System (SAS).
4. The main theme for the topics will be: The Environment and People.

GRADING:

- 60% on article reviews and presentations,
- 40% on two tests.

TIME OFFERED: Summer Term D (June 14-August 6) TR: 5:50-8:10pm

TEACHING MODES: Student can take the course as a face-to-face course or as an Elluminate taught online course where students are expected to be logged on during the lecture times.
TEXT: Students do not need to buy a text. I will post links to websites and lecture notes and articles so that students can better understand what I will be teaching in class.

Feel free to email me (ramin@uwf.edu) or to call me (850 474 3104) if you ever need additional information.

Dr. Raid Amin