[A-3]COURSE SYLLABUS

1. Course Description (Approximately 100 words)

The course builds on and is a continuation of the Course: Statistics for Social Scientists 1 (BCD 240). It is intended to equip the students with additional and advanced knowledge and skills to enable them carry out research and analyze community issues. The course will also prepare the students for the analysis of their research project data.

2. Course Goals and Objectives (Approximately 100 words)

At the end of the course the students will be able to:
i. Explain various distributions of data
ii. Use statistical tools and methods to test their hypotheses
iii. Apply the acquired knowledge in their research projects and later in the analysis of communities and their respective emerging issues.

3. Textbook (Title, Author, Publisher, Year of Publication, etc.)

Ian Diamond and Julie Jefferies Beginning Statistics: An Introduction for Social Scientists

4. Reference

Darius Singpurwalla(2013) A Handbook of Statistics: An Overview of Statistical Methods (eBook)

Lind/Marchal/Wathen Basic Statistics for Business and Economics, (7th Edition) McGraw Hill

5. Course Requirements and Grades

MID-TERM - 40%
MAIN EXAM - 60%

6. Course Calendar

Week	Main Content
1	Probability
2	Binomial Distribution & Poisson Distribution
3	Normal Distribution & Treatment of Large and small samples
4	Correlation Analysis
5	Regression Analysis
6	Hypothesis Testing
7	Mid-term exam
8	Null and Alternate Hypotheses
9	Chi-Square Test,
10	F-Test & Student's t-Test
11	Testing of Significance
12	Application of Statistics in Quality Control
13	Stochastic Processes and Statistical Inference
14	Main Exam