**Ph.D. Course Work (STATISTICS)**

**Program Objectives:**

The main objective of this program is to *produce* impactful research, make significant contributions to the alleviation of suffering, and *extend* the wellbeing of individuals, families, groups, organizations and society as a whole.

Our Students work on *developing* mastery in research methodology, both quantitative and qualitative, and statistics and becoming experts in their chosen area of specialization, and contributing to the academic *knowledge* base through publications and conference presentations.

Students also gain a *holistic* *understanding* of data *collection*, *management*, processing, *analysis* and *interpretation*. They become proficient in the use of statistical software and writing statistical code.

They are even able to conduct research either independently or collaboratively in a subarea of statistics and data science

**Program Specific Outcomes**

After successful completion of this program, students will:

1. Have a solid foundation in Statistical Theory and Methodology.
2. Be able to *communicate* the major tenets of statistics, *explain* their work *orally* and *identify* areas of future research areas in statistics.
3. have passed the *comprehensive* written exams at a superior level based on a summary of required coursework.
4. have *designed*, carried out and presented an original work of research at the leading edge of the statistics discipline.
5. be able to *identify* and articulate strategies for dealing with ethical issues that may arise.
6. Attain mastery of broad-based *knowledge* in social work and specific *knowledge* relevant to their own research interests, including theories and methods of intervention.
7. Be able to *explain* some elementary statistical courses independently