



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

Faculty of Natural and Agricultural Sciences

Department of Statistics

BSc. Mathematical Statistics

Mathematical theory and practical applications of statistics in science

Statistics is the art and science of collecting, organising, analysing, interpreting and presenting quantitative and qualitative data for the purpose of drawing scientifically founded conclusions among interdisciplinary applications.

Work type categories for a statistician

ACADEMIC (RESEARCH) STATISTICS

Exceptional mathematical ability for:

- student training
- statistical research in a specialized field
- developing or refining of theories

APPLIED (PRACTICAL) STATISTICS

- Planning and conducting of experiments or projects to collect and analyze information from various disciplines

Skills needed for the career

- strong numerical background as well as a preference for working with figures
- logical reasoning ability
- well-developed sense for planning and analysing problems
- effective interaction and co-operation with professionals from various disciplines
- express ideas and views in simple and clear language, both verbally and in writing
- ability to master computer programming and the use of various software packages

Challenges of the career

- providing important information to governments, companies or professions to assist them in planning for the future
- working within a large variety of subjects and projects
- testifying and providing evidence in court cases
- accurate report writing
- taking on and solving problems outside the field of experience

Employment Opportunities

Colleges, universities of technology, universities, Business organisations, Industries, Research institutions, Government departments, Municipalities, Market research firms, The Central Statistical Service, ESKOM, TELKOM, Vodacom, MTN, CellC, SASOL, Financial institutions, Pharmaceutical companies, Medical Companies, International organisations e.g. World Bank, and many more possibilities.



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