



BLESSINGTON
CHRISTIAN UNIVERSITY

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KIVIDI-NKAYI, CONGO

www.blessington-christian-university.com

Mathematics Bsc Honors

- Full time
- 3 years
- Next start date:
- Fees (per year):
- Entry requirements: Baccalaureat C, D or E

MODULES YEAR I

Compulsory Modules

Credits

Introduction to Calculus	20
Introductory Algebra	20
Multivariable Calculus & Differential Equation	20
Introduction to Probability & Statistics	20
Logic, Sets and Counting	10
Number Systems	10
Problem Solving with Python	10
Dynamics	10

MODULES YEAR II

Compulsory Modules

Credits

Complex Analysis & Algebra	20
Linear Algebra & Coding Theory	20
Vector Calculus & Differential Equation, Transforms Waves	20
Python and Fluid Dynamics	20
Statistics Inference & Stochastic Modelling	20
Probability & Bayesian Methods with R	20

MODULES YEAR III

Optional Modules	Credits
Number Theory and Cryptography	20
Group Theory, Graph & Symmetry	20
Linear Analysis & Topology	20
Matrix Analysis & Representation Theory	20
Methods for Differential Equations & Partial Differential Equations & Non-Linear Waves	20
Quantum Mechanics & Classical Fields	20
Advanced Fluid Dynamics & Computational Modelling	20
Relativity, Variational Methods & Lagrangian Dynamics	20
Linear & Generalised Linear Models	20
Stochastic Financial Modelling & Bayesian	20
Stochastic Inference & Big data Analytics	20
Discrete Stochastic Modelling & Survival Analysis	20

TEACHING AND ASSESSMENT

Teaching methods:

1. Lectures
2. Tutorials and drop-in sessions
3. Online classes

Assessment methods:

1. Written assignment
2. Practical examinations
3. Online examinations