

Molecular Genetics

Bachelor of Science (BSc) Genetics



Description

This field explores the molecular mechanisms that regulate gene expression, DNA replication, mutation, and the genetic basis of diseases and traits in humans, plants, and animals.

- Gain in-depth knowledge of molecular biology, genetics, and genomics.
- Learn laboratory techniques such as DNA sequencing, and bioinformatics.
- Understand the role of genetics in health, agriculture, biotechnology, and evolutionary biology.

This provides a strong foundation for those interested in the cutting-edge developments of genetic science and its applications to real-world challenges.

Suggested minors: Biochemistry

*Recommended for GENE majors planning to go on to post-graduate studies such as BSc (Hons), PgDipSci, MSc and PhD.

Recommended structure

100-level

Core papers:

CHEM 191

CELS 191

Suggested papers:

BIOC 192

STAT 110 OR 115

200-level

Core papers:

GENE 221

GENE 222

GENE 223

Suggested papers:

BIOC 221

MICR 221

STAT 210

STAT 260

MAOH 201

PACH 201

300-level

Core papers:

GENE 313

GENE 314

GENE 315

Suggested papers:

BIOC 352

GENE 312

MICR 335

STAT 310-12

GENE 360*



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