

Curriculum

I Foundation Programme

12 Credits



All students entering the undergraduate programme complete our common core, The Foundation Programme, in the first year. The Foundation Programme is designed around four Studios, each of three credits. They are:

Democracy and Justice

Environment and Climate Change

Neighbourhoods

Water

The studios deliver interdisciplinary learning around six domains:

Data Science, Communication, Behaviour, Constitution & Civilisation, Materials, and Biology & Life.

II General Education Requirement

30 Credits



Humanities and Languages GER

Social Sciences GER

Biological and Life Sciences GER

Mathematical and Physical Sciences GER

Performance and Visual Arts GER

GER Elective 1: Communication I

GER Elective 2: Communication II

GER Elective 3: Introduction to Statistics

GER Elective 4: Any course at the university outside the major

GER Elective 5: Any course at the university outside the major

Major Requirements	Credits
Major Core	66
Introductory Biology Laboratory	
Chemistry	
Microbiology	
Immunology	
Biophysics	
Biochemistry I	
Biochemistry II	
Genetics	
Human Physiology	
Cell Biology	
Molecular Biology	
Evolutionary Biology	
Bioinformatics	
Plant Sciences	
Research Methodology	
Ecology	
Recombinant DNA Technology	
Ethics	
Major Electives	30
Environmental Science	
Microscopy and Imaging	
Animal Biotechnology	
Toxicology	
Nanobiotechnology	
Developmental Biology	
Cancer Biology	
Human Protozoan Parasites	
Computational Structural Biology	
Animal Behaviour	
Forensic Biotechnology	
Behavioural Neurobiology	
Flow Cytometry	
Epigenetics	
Cytogenetics	
Neurobiology	
Fundamentals of Environmental Studies	
Introduction to Field Ecology	
Introduction to Plant Biology	
Physiology of Excitable Cells	
Introduction to Mathematical Biology	
Master's Thesis/Capstone Project	24

IV Free Electives

18 Credits



Free Electives provide flexibility to students to customise their education at the University.

1. Free Electives allow you to take additional courses as per your choice (apart from the Foundation Programme, GERs and Major Requirements), upto 18 credits, across the university to increase your depth or breadth.
2. A student can take a Minor in any area designated as a Minor at any School or Centre of the University. Some Minors may have specific pre-requisites. Free Electives can also be used along with some courses from the Major Requirements and GERs towards a Minor.

V Volunteerism

Required



Note: Most courses have a laboratory/workshop course attached to it to provide hands-on learning. Some courses are exclusively laboratory/project-based courses.