

# Welcome to the College of Sciences Massey University

June 2020

# Welcome to the College of Sciences

**School of Agriculture and Environment**

**School of Built Environment**

**School of Food & Advanced Technology**

**School of Fundamental Sciences**

**School of Natural & Computational Sciences**

**School of Veterinary Science**

- **AgriCommerce**
- **Agricultural Science**
- **Animal Science**
- **Construction**
- **Engineering**
- **Environmental Management**
- **Food Technology**
- **Horticultural Science**
- **Information Sciences**
- **Science**
- **Veterinary Science**

**All programmes have  
undergraduate &  
postgraduate offerings**

**All programmes have  
multiple majors**

# #1: Our students come from all over the world

- Asia, the Pacific, Europe, the Americas. Africa and New Zealand!
- Our graduates have access to a readymade international network
- This network helps them find jobs and opportunities worldwide

## #2: Our faculty come from more than 70 countries

- They can offer support to students from their country or region
- They also retain links with their home countries,
- Students can access opportunities for exchange or work on research projects

## # 3: World ranked programmes

- Agriculture (top 30 in QS)
- Veterinary studies (top 30 in QS)
- Food technology



## # 4: Our students gain hands-on experience

- They have access to world-class facilities, including 2,000 hectares of farmland & a food pilot facility
- They may work at the animal teaching hospital or on animal recovery or conservation programmes
- They are highly employable as soon as they graduate (often before)

## # 5: Alumni become part of a global network

- Across Asia, the Pacific, Europe, the Americas, Africa & NZ
- Students are linked to some of New Zealand's most well-known companies e.g. Fonterra & Zespri
- Once they start applying for jobs they will gain value from the reputation that Massey has earned over its 85 year existence

# Study agriculture & horticulture at Massey University



# Why do a BAgrSci, BAgrComm or BHortSci at Massey?

- **Top ranked NZ university in agriculture**
- **Ranked 29<sup>th</sup> in Agriculture in the world university rankings for 2020 (QS)**
- **Comprehensive coverage of food and fibre**
- **Leaders in on-line teaching and resources**
- **World-class facilities: modern labs, dairy farms, sheep and beef farms, deer farm, cropping areas, centre pivot irrigator, orchards, glasshouses**
- **Pathway to PG study – undergraduate degree in relevant field**

**Food transparency and  
traceability**

**New crops providing a new  
generation of ingredients,  
supplements and environmentally  
beneficial consumer products**

**Be part of the future of food  
production  
Ag & Hort at Massey**

**Controlled environment agriculture  
– food production in our cities**

**New machines for autonomous  
and sustainable farming**

**Data-based decision making and precision  
agriculture: moisture sensors, drones, GPS**

**Reducing food waste and repurposing  
waste into biofuel or fertiliser**

Ideas from [www.disruptordaily.com/future-of-agriculture](http://www.disruptordaily.com/future-of-agriculture)

# Why a career in Agriculture, Horticulture or AgriCommerce?

- **NZ is a world leading premium food and fibre producer, processor and marketer**
- **Huge range of jobs and a shortage of professional, technical, advisory and managerial staff**
- **Over 350,000 New Zealanders work in food and fibre sectors. That's 1 in 7 people.**
- **Opportunities to contribute to an innovative, entrepreneurial industry that constantly adapts and advances**

# Study Information Sciences at Massey University

# North Auckland ITC

- **NZ Immigration shows ITC jobs on Skills Shortage list – analyst, developer, software engineer, tester, etc**
- **North Auckland has 20% of NZ ITC companies and is growing at 16% per year**
- **Starting salaries of NZD 60,000 per year – rapid upward movement is common**
- **Many small to medium companies looking for student interns**
- **Massey Albany campus is in the centre of this exciting region**
- **North Auckland is a great place to live and work – beaches!**

# Massey Information Sciences

## **Compared to other NZ universities:**

- **Massey Information Sciences offers majors that lead to jobs on the Skills Shortages list**
- **Projects, internships, jobs with local software companies (all around Albany campus)**
- **Massey is the only NZ University that offers 5 ICT majors (possible to change major)**
- **Massey has a technical and applied approach based on C++ programming**
- **A professional and accredited degree for a career in ITC**

# Massey Information Sciences Qualifications

**B. Information Sciences – 3 years – easy to change major – capstone project – applied approach**

**Majors: Computer Science, Data Science, Info Technology, Info Systems, Software Engineering**

**Up to 1 year (120 credits) cross credit from previous study – complete after 2 years.**

**Graduate Diploma – (must have a degree) – 1 year – conversion to IT**

**Master of Information Sciences – (must have B GPA for degree) – 1.5 years (3 semesters)**

**Taught courses plus one semester full-time professional project (can be internship)**

**If no background in Computer Science – select “no major” and take a mix of courses**

**Postgraduate Diploma – 1 year – same taught courses as Masters – select “no major”**

# Study Food Technology at Massey University



# Food Technology



- Bachelor of Food Technology with Honours
- 4 year programme – hands on practical experience – including 800 hours practical work
- Accredited with Engineering NZ and IFT (USA)
- Excellent employment prospects in NZ and internationally, well recognised
- Career prospects in multinational and national food companies and government agencies – leading to management, CEO, business owner

# Food Technology

## Master of Food Technology (MFoodTech)

- 180 credit (1.5 years), 4 taught courses followed by a 1 year research thesis

## Master of Food Safety & Quality (MFoodSafQual)

- 180 credits (full time or part-time), 8 courses of taught material and 60 credit research report.  
Industry experience useful but not essential

## Graduate Diploma in Science and Technology

- 1 year pathway programme before masters

# Food Technology

- Both undergraduate bachelors and masters programmes are offered on Auckland and Manawatu (both in the North Island)
- Excellent research active staff on both campuses with exciting research projects.
- Graduates from Food Technology can secure excellent jobs or pursue postgraduate programmes

# Study Veterinary Science at Massey University

# Why study to become a veterinarian at Massey University?

- **Highly ranked veterinary school**
- **Widely accredited degree**
  - **NZ, Aus, USA, Canada, UK, South Africa**
  - **Parts of Asia/Europe**
- **Fastest pathway to a highly accredited degree**
- **One location for the entire vet degree**
- **Lots of hands on learning**

# CONSTRUCTION PROGRAMME

**Massey is the only New Zealand university to offer a degree in construction**

**Entry requirements:**

- **University Entrance or be 20 years old or older**
- **Reasonable knowledge of Mathematics and**
- **Able to communicate in English**

# Qualifications

## Bachelor of Construction BConst

### Majors:

Quantity Surveying

Construction Management

## Postgraduate Diploma in Construction PGDipConstr

### Specialisations:

Building Technology

Construction Law

Construction Project Management

Facilities Management

Quantity Surveying

## Master of Construction MConstr

### Specialisations:

Building Technology

Construction Law

Construction Project Management

Facilities Management

Quantity Surveying

## Doctor of Philosophy PhD