

# Bachelor of Information Technology

Course code: NBIT

## Course Requirements

To attain the Bachelor of Information Technology, students will be required to complete 288 credit points consisting of:

- 96 credit points of First Year Core studies;
- 48 credit points of Graduating Core studies;
- 96 credit points of Major studies;
- 48 credit points of Minor studies (discipline).

Students are required to enrol in all units for semester 1 and 2, and are not permitted to enrol in more than 48 credit points per semester as a full-time load.

## Credit Points

A credit point is used to measure the study load for a unit. A standard unit consists of 12 credit points, with each completed unit's credit points adding up to meet your required total of credit points to complete your course.

## Capstone Units

This course includes capstone units, which are third-year level units that are completed at the end of your last year of study. They involve demonstrating the skills and knowledge you have acquired through your course, usually through a large research project or an internship. They have the study load of 2 units, and are worth 24 credit points upon completion.

## Further Information

Unit and course information is available from the University course search site at <http://vu.edu.au/course-search> or go to <https://askvu.vu.edu.au> or Phone VUHQ on 03 9919 6100

## Campus

Footscray Park (FP)

## College

College of Engineering and Science

## Study Mode

Full Time or Part Time

## Duration

3 years Full Time or Part Time equivalent

## Fee Type

For information on course fees, refer to <http://vu.edu.au/fees>

## Application Method

VTAC - <https://vtac.edu.au>  
Direct Application - <https://gotovu.custhelp.com/app/landing>

## Timetable

[vu.edu.au/timetables](http://vu.edu.au/timetables)

## Course Chair

Dr. Khandakar Ahmed

## Course Advice

AskCUA - <https://askvu.vu.edu.au/app/askcua>

## Year 1

Unit Code	Unit Title	Unit Type	Sem	Credit Points	Campus	Pre-Requisites
NIT1102	Introduction to Programming	Core	1B1	12	FP	
NIT1103	Communication and Information Management	Core	1B3	12	FP	
NIT1104	Computer Networks	Core	1B4	12	FP	
NIT1101	Web Development and CMS	Core	1B2	12	FP	
NIT1201	Introduction to Database Systems	Core	2B1	12	FP	
NIT1202	Operating Systems	Core	2B2	12	FP	
NIT1203	Introduction to Project Management	Core	2B4	12	FP	
NIT1204	Web Application and Server Management	Core	2B4	12	FP	NIT1101

Students should be enrolling in the above sequence patterns only. Unit offerings have been created by your discipline for your specific course. If the unit quota is full, please contact [AskCUA](#) for course advice

Student commencing in Semester 1, Block 3 (1B3) should enrol as per below sequence pattern:

- 1B3 - NIT1102 - Introduction to Programming
- 1B4 - NIT1104 - Computer Networks
- 2B1 - NIT1202 - Operating Systems
- 2B2 - NIT1101 - Web Development and CMS
- 2B3 - NIT1203 - Introduction to Project Management
- 2B4 - NIT1204 - Web Application and Server Management (requires the completion of NIT1101)

## Prerequisites

A number of units within the degree have 'prerequisites'. These prerequisites must be met before enrolment in the unit is permitted. Generally these prerequisites require the successful completion of a unit or units taken at an earlier stage in the course. Students should pay particular attention to these prerequisite requirements as failure to meet these can seriously hinder progression through the course.

### Core

A unit that must be completed

### Major

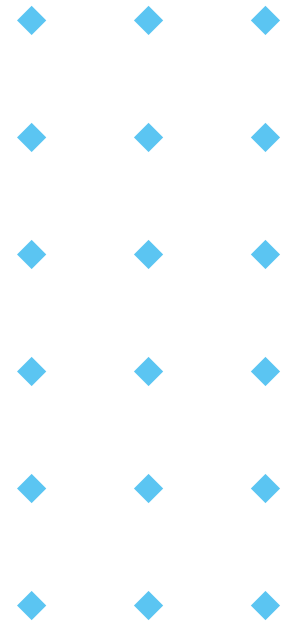
The subject area that you will specialise in during your degree, comprising a set of units within a particular discipline. For example, a business degree has majors such as marketing and banking & finance. At Victoria University a major is made up of 96 credit points (equivalent to 8 units)

### Minor

A subject area that is the second focus of a degree, comprising a smaller set of units than a major within a particular discipline. At Victoria University a minor is made up of 48 credit points (equivalent to 4 units).

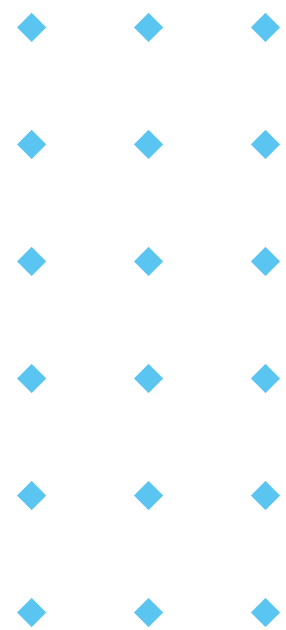
**Year 2**

Unit Code	Unit Title	Unit Type	Sem	Credit Points	Campus	Pre-Requisites
	Major 1 - Unit 1	Major		12		
	Major 1 - Unit 2	Major		12		
	Minor 1 - Unit 1	Graduating Core Minor		12		
	Minor 2 - Unit 1	Minor		12		
	Major 1 - Unit 3	Major		12		
	Major 1 - Unit 4	Major		12		
	Minor 1 - Unit 2	Graduating Core Minor		12		
	Minor 2 - Unit 2	Minor		12		



**Year 3**

Unit Code	Unit Title	Unit Type	Sem	Credit Points	Campus	Pre-Requisites
	Major 1 - Unit 5	Major		12		
	Major 1 - Unit 6	Major		12		
	Minor 1 - Unit 3	Graduating Core Minor		12		
	Minor 2 - Unit 3	Minor		12		
	Major 1 - Unit 7	Major		12		
	Major 1 - Unit 8	Major		12		
	Minor 1 - Unit 4	Graduating Core Minor		12		
	Minor 2 - Unit 4	Minor		12		



## Majors and Minors

Students in this course pick **One Major** and **One Minor** option. Once selected you can go to the page that relates to this option for the correct enrolment into your required sequence pattern. Ensure that you enrol Year 2 units before Year 3.

You should be enrolling the below each year:

- x 4 Major Units
- x 2 Graduating Core Units
- x 2 Minors Units

### Compulsory Minors

NMIITC      [Graduating Core](#)

### Approved Minors

NMIASD      [Software Development](#)  
(cannot take this option if taking NMAWMD Major)

NMIANM      [Network Management](#)  
(cannot take this option if taking NMANSC Major)

NMIICT      [ICT Management](#)

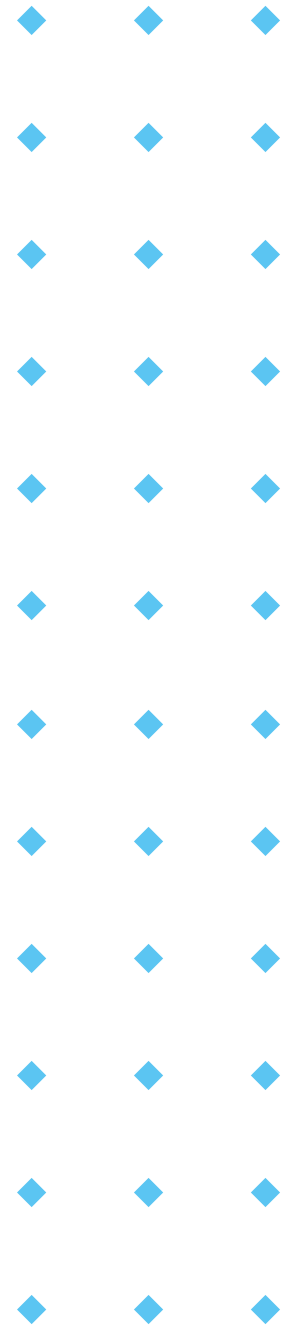
### Approved Majors

NMANSC      [Network and System Computing](#)

NMAWMD      [Web and Mobile Application Development](#)

This course does not offer Cyber Security as a Major

International students should be enrolling In-Person units only and only taking the online option if there is no other option



## Majors

### Network and System Computing - NMANSC

This major provides students with advanced knowledge and skills in network and system computing through an integrated set of units in networking and network management. It builds on the Bachelor of Information Technology foundations including computer networks, programming, database systems and operating systems.

Students will study server management, enterprise network management, routing and switching, IPv6, mobile and wireless networks, network design, Internet of Things, network security and virtualisation. It will prepare students for Microsoft and Cisco certificates like Microsoft Server Administration, Microsoft Active Directory, Microsoft HyperV, CCNA, CCNA Wireless and CCNA Security. Furthermore, they will apply practical and contemporary technologies to develop solutions to real world problems in their capstone final year projects.

Unit Code	Unit Title	Unit Type	Sem	Credit Points	Campus	Pre-Requisites
NIT2103	Cloud Computing <small>REPLACED UNIT NIT2202</small>	Major		12	FP, ORT	NIT1102 and NIT1104
NIT2122	Server Administration and Management	Major		12	FP	NIT1202
NIT2124	Network Management	Major		12	FP	NIT1104
NIT2222	Networking Technologies	Major		12	FP, ORT	NIT1104
NIT3114	Online Business System Dev	Major		12	FP	NIT1204 or NIT2112 or NIT2213
NIT3122	Enterprise Network Management	Major		12	FP	NIT2122
NIT3202	Data Analytics for Cyber Security	Major		12	FP	NIT2102 and NIT2202
NIT3222	Virtualisation in Computing	Major		12	FP, ORT	NIT2122 or NIT2222

### Semester Dates

For accurate, up-to-date semester dates for this major, please go to [MyVU](#).

International students should be enrolling In-Person units only and only taking the online option if there is no other option

## Majors

### Web and Mobile Application Development - NMAWMD

This major provides students with advanced knowledge and skills in web and mobile application development through an integrated set of units in web and mobile application development. It builds on the Bachelor of Information Technology foundations including computer networks, programming, database systems and operating systems. Students will study object oriented programming, software engineering, web programming, mobile app programming, cloud app programming and database systems. Furthermore, they will apply practical and contemporary technologies to develop solutions to real world problems in their capstone final year projects.

Unit Code	Unit Title	Unit Type	Sem	Credit Points	Campus	Pre-Requisites
NIT2112	Object Oriented Programming	Major		12	FP	NIT1102
NIT2113	Cloud Application Development	Major		12	FP, ORT	NIT1102 or BCO1102
NIT2202	Big Data	Major		12	FP, ORT	NIT1102 or NIT1201
NIT2213	Software Engineering	Major		12	FP	
NIT3112	Advance Web Application Development	Major		12	FP, ORT	NIT2112 and NIT2213
NIT3114	Online Business System Development	Major		12	FP	NIT1204 or NIT2112 or NIT2213
NIT3202	Data Analytics for Cyber Security	Major		12	FP, ORT	NIT2102 and NIT2202
NIT3213	Mobile Application Development	Major		12	FP	NIT2112 or NIT2213

### Semester Dates

For accurate, up-to-date semester dates for this major, please go to [MyVU](#).

International students should be enrolling In-Person units only and only taking the online option if there is no other option

## Minors

### Graduating Core- NMIITC

This minor provides students the opportunity to articulate the role of the IT profession within the local and global communities by bringing together the knowledge and skills acquired in earlier units and apply them to solve the real-world problems in Capstone IT projects. Students will also study core knowledge and skills such as security, ethics and other areas important for IT professionals.

Unit Code	Unit Title	Unit Type	Sem	Credit Points	Campus	Pre-Requisites
NIT2102	Cyber Security Essentials	Minor		12	FP, ORT	NIT1104
NIT2201	IT Profession and Ethics	Minor		12	FP, ORT	
NIT3003	IT Capstone Project 1	Minor		12	FP	
NIT3004	IT Capstone Project 2	Minor		12	FP	NIT3003

### Software Development - NMIASD

The minor prepares students for careers in software engineering. Students will be provided with broad and coherent knowledge in contemporary software modelling techniques and specialised software development technologies. Modules include object-oriented programming, web programming and mobile application development. Students will also have opportunity to work on a productive software development team by applying the core principles consistent in software design, construction and maintenance.

Unit Code	Unit Title	Unit Type	Sem	Credit Points	Campus	Pre-Requisites
NIT2112	Object Oriented Programming	Minor		12	FP	NIT1102
NIT2213	Software Engineering	Minor		12	FP	
NIT3112	Advance Web Application Development	Minor		12	FP, ORT	NIT2112 and NIT2213
NIT3213	Mobile Application Development	Minor		12	FP	NIT2112 or NIT2213

### Semester Dates

For accurate, up-to-date semester dates for these minors, please go to [MyVU](#).

International students should be enrolling In-Person units only and only taking the online option if there is no other option

## Minors

### Network Management- NMIANM

The network management minor provides students with broad understanding of the operation, administration and maintenance of network systems. The students will study specialised and in depth technologies in network management, including routing algorithms and protocols, Network Address Translation (NAT), IPv6 networks, Microsoft server management, Microsoft enterprise network management and Microsoft HyperV virtualisation.

Unit Code	Unit Title	Unit Type	Sem	Credit Points	Campus	Pre-Requisites
NIT2122	Server Administration and Management	Minor		12	FP, ORT	NIT1202
NIT2222	Networking Technologies	Minor		12	FP, ORT	NIT1104
NIT3122	Enterprise Network Management	Minor		12	FP, ORT	NIT2122
NIT3222	Virtualisation in Computing	Minor		12	FP, ORT	NIT2122 or NIT2222

### ICT Management - NMIICT

The minor prepares students for careers in software engineering. Students will be provided with broad and coherent knowledge in contemporary software modelling techniques and specialised software development technologies. Modules include object-oriented programming, web programming and mobile application development. Students will also have opportunity to work on a productive software development team by applying the core principles consistent in software design, construction and maintenance.

Unit Code	Unit Title	Unit Type	Sem	Credit Points	Campus	Pre-Requisites
NIT2171	Introduction to ICT Management	Minor		12	FP, ORT	NIT1102
NIT2271	ICT Change Management	Minor		12	ORT	
NIT3171	ICT Business Analytics and Data Visualisation	Minor		12	FP, ORT	NIT2202 or BAO2001 and NIT2171 or NIT2271
NIT3274	Small IT Business	Minor		12	FP, ORT	NIT2171 or NIT2271

### Semester Dates

For accurate, up-to-date semester dates for these minors, please go to [MyVU](#).

International students should be enrolling In-Person units only and only taking the online option if there is no other option