

Information Technology

Courses - Victoria

2017

This document has been developed to assist students and parents in researching undergraduate information technology and computer science courses. It isn't an exhaustive list, and students are encouraged to research their options and to attend tertiary information seminars throughout the year.

Course areas include (but are not limited to):

Software Engineering	Gaming
Cyber Security	Information Systems
Networking	Data Science
Computer Science	Information Technology

Exploring courses

You can search the state-based Tertiary Admission Centre websites for information about courses. Please be aware that this information is for the **2017 selection period** and some **courses may change in 2018**. **ATARs are for the 2017 selection period and may rise or fall in the 2018 selection period**. Please only use them as a guide. To search for Victorian courses, use the Victorian Tertiary Admission Centre (VTAC) course search function at <http://www.vtac.edu.au/>

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Key Career Websites

Careers With Code	http://bit.ly/2rmZsrs
I Choose Technology	http://bit.ly/2adStKy
Job Outlook	http://bit.ly/1x5Rn9x
Myfuture	http://bit.ly/2IZ6HTx



Overview

Course search link - <http://bit.ly/2rUseSK>

Codes:

- Burwood = B
- Geelong = G
- Warrnambool = W.
- Doesn't include Cloud (online) courses.
- No ATAR published = NP.

English – doesn't include English as an Additional Language (EAL)

ATARs – all ATARs listed in brackets are from the 2017 intake and may change for the 2018 intake.

Computer Science

Bachelor of Computer Science: B (65.95).
Prerequisite – 20 in any English. Will complete at least 100 hours of work experience

Majors: Choose 1 from the following list:

- Cognitive Science
- Robotics and Cyber-physical Computing
- Data Science.

Information Technology

Bachelor of Information Technology: B (60.85), G (56.4). Prerequisite – 20 in any English. Will complete at least 100 hours of work experience or a 6 – 12 week work experience placement.

Majors: Choose 1 or 2 from the following list:

- Cloud Computing
- Game Development
- Interactive Media Design
- Mobile and Apps Development
- Programming
- Security
- Virtual and Augmented Reality

Can combine with the Bachelor of Information Systems (B - NP).

Information Systems

Bachelor of Information Systems: B (NP).
Prerequisite – 20 in any English. Will complete a Work Integrated Learning subject.

Can combine with one of the following bachelor degrees:

- Information Technology (B - NP).
- Commerce (B – 76.35)

Games Design and Development

Bachelor of Games Design and Development: B (61.45). Prerequisite – 20 in any English. Will complete at least 100 hours of work experience.

Can combine with one of the following bachelor degrees:

- Information Technology (B - NP).
- Commerce (B – 76.35)

Cyber Security

Bachelor of Cyber Security: B (61.3), G (NP).
Prerequisite – 20 in any English. Will complete at least 100 hours of work experience.

Can combine with the Bachelor of Criminology (B = 60.45, G = 61.9)

Software Engineering

Bachelor of Software Engineering (Honours): B (64.2). Prerequisite – 20 in any English and 20 in either Mathematical Methods or Specialist Mathematics.

Will complete at least 100 hours of work experience.

Excellence Program

Global Science and Technology Program - <http://bit.ly/2oIV16S>

Overview

Course search link - <http://bit.ly/28XO2CG>

Codes:

- Melbourne (Bundoora) = M
- Bendigo = B
- No ATAR published = NP.

English – doesn't include English as an Additional Language (EAL)

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Information Technology

Bachelor of Information Technology: M (50.15), B (50.7). Prerequisite – 20 in any English.

Can major in areas such as Software and Mobile Development, Web Development, and Cybersecurity. Can take a second major from another area at the University such as psychology, media arts, business etc.

Information Technology (Professional)

Bachelor of Information Technology (Professional): Melbourne and Bendigo – minimum ATAR: 80. Prerequisite – 20 in any English and 20 in any Maths.

Have the opportunity to access one-year of industry experience. Bendigo students will be supported by a scholarship.

Computer Science

Bachelor of Computer Science: M (55.2). Prerequisite – 20 in any English and 20 in either Mathematical Methods or Specialist Mathematics.

Can choose one of the following streams: Software Engineering, Data Engineering, Artificial Intelligence, and Network Engineering.

Can combine with a Bachelor of Commerce (M = 55.2)

Business Information Systems

Bachelor of Business Information Systems: M (NP). Prerequisite – 20 in any English.

Will study information technology and business subjects

Cybersecurity

Bachelor of Cyber Security: M (new course). Prerequisite – 20 in any English.

You can either complete a major in Information Technology Security or study electives in areas such as Linguistics, International Studies and Psychology. Can combine with one of the following Bachelor degrees:

- Commerce
- Psychological Science

Health Information Management

Bachelor of Health Sciences (Medical Classification)/Bachelor of Health Information Management: B (60.95).

Prerequisite – 25 in any English and 20 in one of the following: Biology, Chemistry, Physics, Physical Education or any Mathematics

This double degree combines studies in health science, business and information technology

Industry Based Learning

Students can apply for the Industry Based Learning program. Paid work placement is available for up to 10-months for some courses.

Early Entry Program

Aspire Early Admissions Program, <http://bit.ly/1cXetap>

Overview

Course search link - <http://bit.ly/28XO2CG>

Campus – Hawthorn for university courses

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TAFE

Swinburne offers TAFE courses in areas such as

- Information Technology
- Computer Systems Technology
- Media Digital Technologies
- Digital and Interactive Games
- Information Technology Networking
- Software Development

Pathway Course

Diploma of Information Technology (UniLink): 8-month pathway course for students who don't receive the required ATAR to get directly into their desired course. 2017 ATAR – 50.15. Once students have successfully completed the Diploma, they will be guaranteed entry into second year of an approved course providing academic expectations are met, <http://bit.ly/2rkdryb>

Business Information Systems

Bachelor of Business Information Systems: (60+). Prerequisite – 25 in any English.

Majors: Business Analysis, Data Analytics, Data Management.

Can combine with one of the following Bachelor degrees: Business (60+) or Law (90+).

Computer Science

Bachelor of Computer Science: (70). Prerequisite – 25 in any English, and completion of any Mathematics at Unit 1-2 or Unit 3-4 level.

Can pick 1 or 2 of the following majors:

- Cyber Security
- Data Science
- Games Development
- Network Design
- Software Design
- Software Development

There are 76 minors to choose from.

Can combine this degree with one of the following Bachelor degrees: Games and Interactivity, Engineering (Honours) or Laws.

Bachelor of Computer Science (Professional): same as above, but must achieve an ATAR of at least 80. Guaranteed access to 12-months of paid industry experience. Can only choose 1 major.

Information & Communication Technology

Bachelor of Information and Communication Technology: (60.15). Prerequisite – 25 in any English, and completion of any Mathematics at Unit 1-2 level.

Can pick 1 or 2 of the following majors:

- Business Systems
- Network Technology
- Software Technology
- Systems Analysis
- Systems Management

There are 45 co-majors to choose from.

Bachelor of Information and Communication (Professional): same as above, but must achieve an ATAR of at least 80. Guaranteed access to 12-months of paid industry experience. Can only choose 1 major.

Games and Interactivity

Bachelor of Games and Interactivity/Bachelor of Computer Science: (70.4). Prerequisite – 25 in any English, and completion of any Mathematics at Unit 1-2 level.

Can pick 1 of the following majors in the Computer Science degree:

- Cyber Security
- Data Science
- Games Development
- Network Design
- Software Design
- Software Development

Plus an advanced major in one of the following: 3D Modelling and Animation, Journalism, Visual Effects, or Web and Mobile Devices.

Software Engineering

Pathway course – Diploma of Engineering (Unilink): (50+). Once students have successfully completed the 8-month Diploma, they will be guaranteed entry into second year of an approved course providing academic expectations are met, <http://bit.ly/2rkdryb>

Bachelor of Engineering (Honours) majoring in Software Engineering: (70.4). Prerequisite – 25 in any English, and 20 in Mathematical Methods.

Can combine this course with one of the following Bachelor degrees:

- Innovation and Design
- Business
- Computer Science
- Science
- Law

Bachelor of Engineering (Honours) (Professional) majoring in Software Engineering: (80+). Same as above, but must achieve an ATAR of at least 80. Guaranteed access to 12-months of paid industry experience.

Scholarship Programs

Bachelor of Accounting and Information Systems: (80+). Prerequisite – 25 in any English. Selected students will be chosen for an interview as part of the selection process. Cannot defer this course.

- Will receive a \$40 000 industry scholarship and 40 weeks of industry experience.

Bachelor of Information Technology: (80+). Prerequisite – 25 in any English and 20 in any Mathematics. Selected students will be chosen for an interview as part of the selection process.

- Will receive a \$40 000 industry scholarship and 40 weeks of industry experience.

Vice Chancellor's Excellence Scholarship: for students who achieve an ATAR of 95+. \$5000 per year plus \$2000 towards an international study experience.

Dean's Outstanding Achievement Scholarship: For students who achieve an ATAR of 90+. \$2500 per year plus \$2000 towards an international study experience.

You must select the correct Scholarship program in your VTAC preference list:

- Engineering
- Games and Animation
- Information and Communication Technologies

Overview

Course search link - <http://bit.ly/28XO2CG>

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TAFE

RMIT offers TAFE courses in areas such as:

- Information Technology
- Information Technology – Networking
- Computer Systems Engineering
- Interactive Digital Media

Information Technology

Associate Degree in Information Technology: (50.07). Prerequisite – 20 in any English and 20 in any Mathematics. Provides a pathway into a relevant Bachelor degree with credit

Bachelor of Information Technology: (70). Prerequisite – 20 in any English and 20 in any Mathematics.

You can pick one of the following majors:

- Application Programming
- Business Applications
- Cloud Computing
- Mobile Computing
- Multimedia Design
- Social Media
- System Administration
- Web Systems

There are 6 minors available.

Computer Science

Bachelor of Computer Science: (82). Prerequisite – 25 in any English and 25 in Mathematical Methods or Specialist Mathematics.

You can pick one of the following majors:

- Artificial Intelligence
- Cloud Computing
- Big Data
- Mobile Computing
- Application Programming
- Games, Graphics and Digital Media
- Security
- Web Systems

You can combine this course with one of the following Bachelor degrees:

- Computer and Network Engineering (86.6)
- Telecommunications Engineering (NP)

Computing Studies

Bachelor of Technology (Computing Studies): (61.55). Prerequisite – 25 in any English.

65% of the course will focus on IT and the rest on other areas of interest such as accounting and law, applied communication, economics, and finance and marketing.

Gaming

Bachelor of Design (Games): ATAR + Additional selection criteria. Prerequisite – 25 in any English.

Bachelor of Information Technology (Games and Graphics Programming): (NP). Prerequisite – 25 in any English and 25 in Mathematical Methods or Specialist Mathematics.

Computer and Network Engineering

Bachelor of Computer and Network Engineering (Honours): (NP). Prerequisite – 25 in any English and 20 in Mathematical Methods or Specialist Mathematics.

Can combine this course with one of the following Bachelor degrees:

- Business (Management) (NP)
- Computer Science (86.6)

Pathway course

Associate Degree in Engineering Technology (specialising in Computer and Network Engineering). (50+). Prerequisite – 20 in any English and 20 in Mathematical Methods or Specialist Mathematics.

Once you complete the 2-year program, you may be able to move into the Bachelor degree with credit.

Information Systems

Bachelor of Business (Information Systems): (65.6). Prerequisite – 25 in any English.

Can pick a second business major or a minor.

Bachelor of Business (Information Systems) (Applied): (80.85). Same as above, but students have access to a 12-month industry placement.

Overview

Course search link - <http://bit.ly/2rWjXhe>

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Science Pathway

Bachelor of Science: (85, Access Melbourne – 78). Prerequisites: 25 in any English; 25 in either Mathematical Methods or Specialist Mathematics; and 25 in Biology, Chemistry or Physics OR 25 in both Mathematical Methods and Specialist Mathematics.

You can major in one of the following areas:

- Computing and Software Systems
- Data Science
- Spatial Systems

Computational Biology is also a great major to look into if you love science.

Design Pathway

Bachelor of Design: (88.25, Access Melbourne – 78). Prerequisites: 25 in any English. 25 in Mathematical Methods is required for the Computing and Spatial Systems majors.

You can major in one of the following areas:

- Computing
- Digital Technologies
- Spatial Systems

Informatics

Diploma of Informatics: No prerequisites – you apply for this course once you are accepted into the Bachelor degree you have applied for.

You can't apply for the Diploma if you are undertaking the following majors:

- Bachelor of Science: Computing and Software Systems, or Data Science.
- Bachelor of Design: Computing

Overview

2018 Information Technology Course Guide -
<http://bit.ly/2rWgO15>

Monash course search: <http://bit.ly/2naF88F>

English – doesn't include English as an Additional Language (EAL)

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Information Technology

Bachelor of Information Technology: (80).
Prerequisites: 25 in any English; completion of any Mathematics at the Unit 1+2 or Unit 3+4 level.

Can major in one of the following areas:

- Business Information Systems
- Computer Networks and Security
- Games Development
- Multimedia Development
- Software Development
- Digital Humanities (can only be taken as a second major)

Can minor in the following areas

- All of the above, plus the following
- Computer Science
- Creative Computing
- Cyber Security
- Data Science
- Games Design
- IT for Business
- Mobile Apps Development
- Software Engineering
- Web Development.

You can combine the degree with one of the following Bachelor degrees: Arts, Business, Business Specialist, Commerce, Commerce Specialist, Design, Education (Honours), Engineering, Fine Art or Science.

Computer Science

Bachelor of Computer Science: (84.05).
Prerequisites: 25 in any English; 25 in Mathematical Methods or Specialist Mathematics.

Can major in one of the following areas:

- Advanced Computer Science
- Data Science

Bachelor of Computer Science Advanced (Honours): (96.7). Prerequisites: 25 in any English; 25 in Mathematical Methods or Specialist Mathematics.

This course has a strong research focus. You will complete hands-on projects and an industry or project placement.

Software Engineering

Bachelor of Software Engineering (Honours): (88).
Prerequisites: 25 in any English; 25 in Mathematical Methods or Specialist Mathematics; 25 in Chemistry or Physics.

Can combine this degree with one of the following Bachelor degrees: Arts, Commerce, Commerce Specialist, Computer Science, Information Technology or Science.

Hands-on Experience

You will complete one of the following hands-on learning experiences during your degree:

- Industry based learning – one or two industry placements plus a \$17 000 scholarship towards each placement
- Team based industry experience studio project developing an IT system for a business client
- Computer science project designing and building a software solution
- Data science project analysing and interpreting real-world 'big data'.
- Collaborative studio project designing and developing a game or multimedia creation

Overview

Course search: <http://bit.ly/2naG90l>

English – doesn't include English as an Additional Language (EAL)

ATARs – No ATARs were published for the following courses.

TAFE

TAFE courses and university diplomas are offered in the following courses areas:

- Information Technology
- Information Technology (Networking)

Information Technology

Bachelor of Information Technology: (NP). Prerequisites: 20 in any English and 20 in any Mathematics.

You will major in either:

- Web and Mobile Application Development
- Network and System Computing

You will select a minor from the following list:

- ICT Management
- Software Development
- Network Management
- Global Leadership

Information Systems Management

Bachelor of Business (Information Systems Management): (NP). Prerequisite: 20 in any English.

Can complete a second major in one of the following areas:

- Accounting
- Banking and Finance
- Event Management
- Financial Risk Management
- Human Resource Management
- International Hospitality Management
- International Tourism Management
- International Trade
- Management and Innovate
- Marketing
- Music Industry
- Supply Chain and Logistics Management

Overview

2018 Information Technology Course Guide,
<http://bit.ly/2qCY1rD>

Course search: <http://bit.ly/24hMag4>

English – doesn't include English as an Additional Language (EAL)

ATARs – no ATARs were published for the 2017 intake

TAFE

TAFE courses are offered in the following areas:

- Digital Media Technologies
- Information Technology

Information Technology

The specialist degrees listed below have the following prerequisites: 15 in any English and 20 in either Mathematical Methods (CAS) or Specialist Mathematics.

- Bachelor of Information Technology (Big Data and Analytics)
- Bachelor of Information Technology (Games Development)
- Bachelor of Information Technology (Software Development)

Information Technology

Bachelor of Information Technology:

- Prerequisites: 15 in any English and completion of any Mathematics at the Unit 1+2 or Unit 3+4 level.

You can complete an in-depth specialisation and also electives from other course areas such as business.

The specialist degrees listed below have the following prerequisites: 15 in any English and completion of any Mathematics at the Unit 1+2 or Unit 3+4 level.

- Bachelor of Information Technology (Business Information Systems)
- Bachelor of Information Technology (Cloud and Enterprise Computing)
- Bachelor of Information Technology (Mobile App Development)
- Bachelor of Information Technology (Network and Security)

Scholarship Program

Bachelor of Information Technology (Professional Practice). No ATAR published. Prerequisites: 15 in any English and completion of any Mathematics at the Unit 1+2 or Unit 3+4 level.

Successful applicants will receive 1600 hours in industry placements with a partner such as IMB and an industry scholarship worth at least \$35 500.

Academy of Information Technology

Overview

Course search: <http://www.ait.edu.au/>

Location: Melbourne

English – doesn't include English as an Additional Language (EAL)

TAFE courses

TAFE and university diploma courses are offered in the following areas:

- Software Development
- Information Technology
- Digital Design
- Interactive Media
- Digital Design

University Courses

Entry for Bachelor degrees: an ATAR of 60. May need to complete an interview and submit a portfolio.

- Bachelor of Information Technology (Mobile Applications Development)
- Bachelor of Information Technology (Games Programming)
- Bachelor of Digital Design
- Bachelor of Interactive Media (Games Design)