



FREMANTLE
COLLEGE



Specialist ICT Program

The best way to
predict the future
is to create it....
Peter Drucker



Our Program

Fremantle College's Approved Specialist Information, Communication and Technology (ICT) Program offers students a specially designed curriculum for the 21st century learner. Drawing upon the principles of STEM (Science, Technology, Engineering, Math) learning our students solve real-world issues through exploration and investigation.

Fostering creativity and innovation, the Specialist ICT Program encourages students to view today's world, and design for tomorrow's.

Available to students from Year 7 through to Year 10, they will be at the forefront of technology education, with the ability to move from learner to developer. In Year 11 and Year 12 pathways are available for both ATAR and General study, encouraging students to look beyond school, toward future opportunities.

Our program helps to prepare students for a variety of career pathways within technology, including Software Engineering, Web Development, Network Administration, Mechatronics Engineering, Computer Drafting & Graphic Design.



Our Curriculum

The Specialist ICT Program employs project based learning to support students to develop and expand their critical thinking and creativity, and engage them as innovators.

As students progress through the program they will be introduced to a wide range of subjects, providing them with a diverse and comprehensive technology education.

Areas of study in the Specialist ICT Program include the most current innovations:

- Web Development using HTML and CSS
- Software Engineering using Python and JavaScript
- App Development for Mobile Devices
- Understanding the inner architecture of a PC
- Experimenting with future technologies such as Augmented and Virtual Reality
- Video editing and Animation with industry quality Adobe software
- Industry level Computer Networking design using CISCO approved training
- Programmable Robotics using a range of technologies including BBC Micro Bit and Lego Mindstorms
- Computer Aided Design and Fabrication using CAD software and industrial CNC fabrication machinery
- Virtual Reality and Augmented Reality
- Digital & Graphic Design with industry quality Adobe software

Students complete two sessions of Specialist ICT per week from Year 7 through to Year 10.



Our Facilities

Fremantle College opened in 2018 and our campus is an amalgamation of new buildings and refurbished classrooms. Dedicated facilities for the development of ICT skills have been established within the college and support the delivery of the program.

Specialist ICT students have access to our fully equipped computer labs and utilise these weekly. Cross-curricular opportunities also exist for students to work across the college and experience a range of industry-quality technology. Engineering facilities within the Maritime Trade Training Centre complement the ICT Specialist Program, and enable students to transfer skill sets. Our Television Studio and Digital Recording Studio also link students with The Arts, and provide the environment for opportunities in experiential learning.



“You affect the world by what you browse”.... Tim Berners-Lee



Representatives of the College

Specialist ICT students have the opportunity to represent Fremantle College in a range of competitions online and off campus. These include participation at a national and international level.

New competitions and experiences are being established each year and the college is constantly seeking creative and innovative programs to be involved with. Established links with organisations continue to strengthen, enabling greater scope for student achievement.

Students in the Specialist ICT Program are also involved in showcasing their work to the college and wider community, supporting their own development within the area of technology and presenting the questions and answers that will drive tomorrow's world.

**We are changing the world with
technology... Bill Gates**



Applying for Specialist ICT

Selection into the Specialist ICT Program is highly sought after and competitive. Places are offered on the basis of each applicant's performance in the selection requirements specific to the program, which include an interview, review of academic achievement and presentation of a technology-based project.

Academic achievement is assessed based on school reports and NAPLAN data. As an enrichment and extension program it is necessary for students to be able to access the curriculum at the required pace.

The Specialist ICT Program attracts additional charges and fee payment is compulsory.

For further information on our Specialist ICT program please contact Fremantle College on (08) 9338 8900 or via email: fremantle.college@education.wa.edu.au





Gifted and Talented Academic
Specialist Contemporary Music
Specialist ICT
Specialist Marine Studies

79 Lefroy Road, Beaconsfield WA 6162

T: 9338 8900

E: fremantle.college@education.wa.edu.au

W: fremantlecollege.wa.edu.au