
LEARNING CHOICES PROGRAM

Game Development

DURATION OF SUBJECT

One semester

SUBJECT TYPE

Elective

COURSE DESCRIPTION

Why do video games captivate? Does playing computer games make you smarter? What makes a video game successful? These are all questions that will be explored throughout the Game Development Course.

Computational thinking, problem solving and writing algorithms are skills essential to becoming innovative thinkers. This is essential, as many of the jobs that will exist for today's youth in the future don't yet exist.

The Game Development course requires students to work individually or in small teams to review, design and create gaming applications for the iOS platform. Students will learn about digital systems, data management and security and develop skills in project management. They will utilise flow charts and storyboards, as well as methods to test and record the functionality and usability of their app. The course enables students to develop understanding and skills in computational thinking, problem solving and visual design. It introduces students to Apple's unique 'Swift' programming language and the software Xcode. Further to this, students will develop generic skills essential to Digital Technology subjects such as file management, backup procedures, data security and project.

ASSESSMENT

Students are required to work individually or in small teams to evaluate, design and create apps for the Apple iOS platform. This is achieved through weekly tasks and two major projects.

Why choose this subject?

This subject is suitable for any student who has an interest in computer programming. It provides an excellent foundation for those wishing to study Digital Technologies in Senior School.