

Semester 1 – TC521 – Computer Coding - Introductory Unit

Through the use of guided instruction, problem solving and online tutorials, students will design and produce computer programs and simple games, learning the basics of computer coding with a real world focus. They will begin to program online resources (author websites) and develop basic games using Visual Studio. Students will develop problem solving skills, logic sequencing and syntax principles to achieve the desired outcome. A variety of tasks will be given over the semester following the software design life cycle.

Assessment

Assessment will be completed in class to utilise the software offered in the computer labs. Students will complete one major challenge per term involving a detailed design write up as well as digital computer theory involved in the product being designed. Students will follow industry standards.

Semester 2 – TC521 – Computer Coding - First time introduction unit

Through the use of guided instruction, problem solving and online tutorials, students will design and produce computer programs and simple games, learning the basics of computer coding with a real world focus. They will begin to program online resources (author websites) and develop basic games using Visual Studio. Students will develop problem solving skills, logic sequencing and syntax principles to achieve the desired outcome. A variety of tasks will be given over the semester following the software design life cycle.

Assessment

Assessment will be completed in class to utilise the software offered in the computer labs. Students will complete one major challenge per term involving a detailed design write up as well as digital computer theory involved in the product being designed. Students will follow industry standards.

Semester 2 – TC533 – Web & Database Design (must have completed TC521)

This course is built on the foundations of TC622. Through the use of guided instruction, problem solving and online tutorials, students will design and produce websites using Adobe Dreamweaver, learning the basics of online design and publishing. They will develop a detailed design, the application itself and reflect on future versions of their programs. Students will also discover how databases are structured and store information and plan to develop their own databases in Microsoft Access.

They will begin to program computer applications and become online digital authors. Students will learn problem solving skills, logical sequencing and syntax principals to achieve the desired outcome. A variety of tasks will be given over the semester utilising the Software Development Life Cycle.

Assessment

Assessment will be completed in class to utilise the software offered in the computer labs. Students will complete one major challenge per term involving a detailed design write up as well as digital computer theory involved in the product being designed. Students will follow industry standards.