

L3 Computer Programming | 2019

Programme description	This is a level 3 computer science course. This is a technically challenging course designed for students who have completed a programming course at level 2 and who code for fun.
Content	Students will learn about concepts of Computer Science, including tractability and chatbots. Students will further develop their programming skills to include OO programming and developing a GUI. Students will create a MySQL database and populate it from HTML forms using PHP and styling the webpages using CSS.
Prerequisites	Students need solid foundational programming knowledge, including the use of arrays or list and, the use of functions. Students may code in different languages from the course language of Python, what is important is that they understand the concepts.
Required	Access to a computer with Python 3 installed. Student's own laptop recommended. Python is free to download from www.python.org/downloads/
Assessment	The projects completed through the year will cover the requirements for 1 external and 2-3 internal standards. The course offers 16-20 credits at level 3.
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Standards		Type	Credit value
AS91636 v3	Level 3: Demonstrate understanding of areas of computer science	E	4
AS91633 v3	Level 3: Implement complex procedures to develop a relational database embedded in a specified digital outcome	I	6
AS91635 v3	Level 3: Implement complex procedures to produce a specified digital media outcome (Optional standard)	I	4
AS91637 v3	Level 3: Develop a complex computer program for a specified task	I	6

I = Internally Assessed | E = Externally Assessed