

## **ICT & COMPUTING EXTENDED DIPLOMA LEVEL 3**

### **WHAT WILL I STUDY?**

We live in a digital age. Mobile technology, social networking, cloud computing and internet-based systems have all radically changed the way we live over the last 15 years. This vocational course, equivalent to three A Levels, has been designed to give you an introduction to the wide range of possibilities at your fingertips and to help you to identify which area of the subject you might want to pursue in the future. The course will cover most aspects of modern Computing and Information Technology and is designed to focus on providing real world solutions to real-world problems.

Your first year will give you an introduction to the general principles of Computing and ICT. You will learn about how programs are designed and built and will investigate how computers are physically assembled. You will build your own websites using professional tools such as DreamWeaver and use Illustrator and Photoshop to create graphics. You will be shown how data is stored in relational databases for use in software solutions.

In the second year you will add client and server side scripts to your websites using JavaScript, PHP and MySQL to build fully functional, fully interactive web-based solutions. You will use VB.NET and Visual Studio to further engineer software solutions.

You will explore how computer networks are put together and investigate how such networks are secured in the real world. You will learn how to program multimedia animations using Flash and ActionScript.

The Henley College is part of the Microsoft DreamSpark program, and therefore Visual Studio is free to download for all students.

### **WHAT NEXT?**

This course is excellent preparation for students who wish to progress to university to study Computer Science, Computer Forensics, Game Design, Multimedia or Information Technology. In addition, students are well placed for Apprenticeships in IT, with past students achieving employment at organisations such as CISCO.

### **ASSESSMENT**

Coursework 100%

### **DURATION**

2 years

### **ENTRY REQUIREMENTS**

Standard entry requirements, preferred GCSE in computing or ICT

### **EXAM BOARD**

Edexcel

### **COSTS**

Textbooks £30