

## Overview

The Business, Computer Science and IT department at the College are looking forward to welcoming you in September. We have a very experienced team of nine teachers who are not only specialists in their subject areas but are here to share their enthusiasm with you. To help you with the step up to sixth form, we have put together a range of resources for you to have a look at over the next couple of months. This will give you a solid foundation so when you arrive here you will feel confident that you have chosen a subject that you are going to enjoy.

## Online Courses

- **Introduction to Web Development:** <https://www.futurelearn.com/courses/introduction-to-web-development>
- **Learn to Code for the Web:** <https://www.futurelearn.com/courses/learn-to-code-for-the-web>
- **Introduction to Encryption and Cryptography:** <https://www.futurelearn.com/courses/encryption-and-cryptography>
- **Craigndave – resource with lots of videos to support what you do in the classroom:** <https://www.youtube.com/channel/UC0HzEBLIJxlrwBAHJ5S9JQg>

## Activities

Being safe online is an important skill to have. Go to the following website: <https://www.pbs.org/wgbh/nova/labs/lab/cyber/>.

In this lab, you'll defend a company that is the target of sophisticated cyber attackers. Your task is to strengthen your cyber defenses and thwart the attackers by completing a series of cybersecurity challenges. You'll crack password, craft code, and defeat malicious hackers.

## TV

**It is important as an IT student to keep up to date with the latest technology so we advise you to look at the following:**

- ◇ BBC Click (weekly on iPlayer <https://www.bbc.co.uk/iplayer/episodes/b006m9ry/click>)
- ◇ The World According to Jeff Goldblum
- ◇ The IT Crowd (TV Comedy Gold!)

## Films



You should watch any of these films and see how they have used computers and consider the effect on society.

- The Great Hack (Netflix Movie)
- The Social Network
- The Imitation Game
- The Matrix
- Tron and Tron Legacy
- War Games

## Reading



- \* BBC Tech News: <https://www.bbc.co.uk/news/technology>
- \* GamesRadar+: <https://www.gamesradar.com/uk/>
- \* Wireframe Magazine: <https://wireframe.raspberrypi.org/> all issues available as free PDF downloads
- \* The Chocolate Touring Machine: <https://teachinglondoncomputing.org/turingmachine/>

## Course Specifications



Extended Certificate - <https://qualifications.pearson.com/content/dam/pdf/BTEC-Nationals/Information-Technology/2016/specification-and-sample-assessments/9781446938058-BTEC-NAT-ExtCert-IT-Spec-Iss2CUpd.pdf>

Diploma - <https://qualifications.pearson.com/content/dam/pdf/BTEC-Nationals/Information-Technology/2016/specification-and-sample-assessments/9781446939505-BTEC-NAT-L3-DIP-IT-SPEC-PREPUBv4.pdf>