Colchester Institute

Computing

WELCOME

Hello this presentation is designed to give you a taste of the Computing qualifications that we offer.

You can study these at either Braintree or Colchester campuses.

A short welcome video by our Area Head for Accounting, Business and Computing Carmel Asbury will play automatically.

Colchester Institute

Computing

WHAT YOU CAN EXPECT TO LEARN AT LEVEL 2

BTEC Level 2 Extended Certificate in Information and Creative Technology

Equivalent to 3 GCSEs at A* - C

1 year course

Entry requirements - 4 GCSEs at grades 9-3 including English and Maths

Combination of Online Exams & Coursework

- Online World (Exam) - Core
- Technology Systems (Exam) - Core
- Digital Portfolio - Core
- Creating Digital Graphics
- Computer Networks
- Software Development
- Website Development
- Installing and Maintaining Computer Hardware

After this course with the right grade an opportunity to progress onto BTEC Level 3 in Computing

Colchester Institute

Computing

WHAT YOU CAN EXPECT TO LEARN AT LEVEL 3

BTEC Level 3 Foundation Diploma/Extended Diploma

Equivalent to 1 A level after the first year
Equivalent to 3 A levels at the end of the second year

Entry requirements-minimum of 5 GCSEs, grades 9-4 including English and Maths, or a relevant level 2 qualification MM/DM or above

Combination of Exams, Controlled Assessments & Coursework

First Year

- Principles of Computer Science (Exam) - Core
- Fundamentals of Computer Systems (Exam) - Core
- IT Systems Security and Encryption - Core
- Business Applications of Social Media - Core
- Computer Games Development
- Website Development

Second Year

- Planning and Management of Computing Projects (Controlled Assessment) - Core
- Software Design and Development Project (Controlled Assessment) - Core
- The Impact of Computing - Core
- Human-Computer Interaction
- Mobile Apps Development
- Computer Networking
- Virtualisation

Colchester Institute

Computing

FACILITIES

Where you will be learning

Colchester Institute

Computing

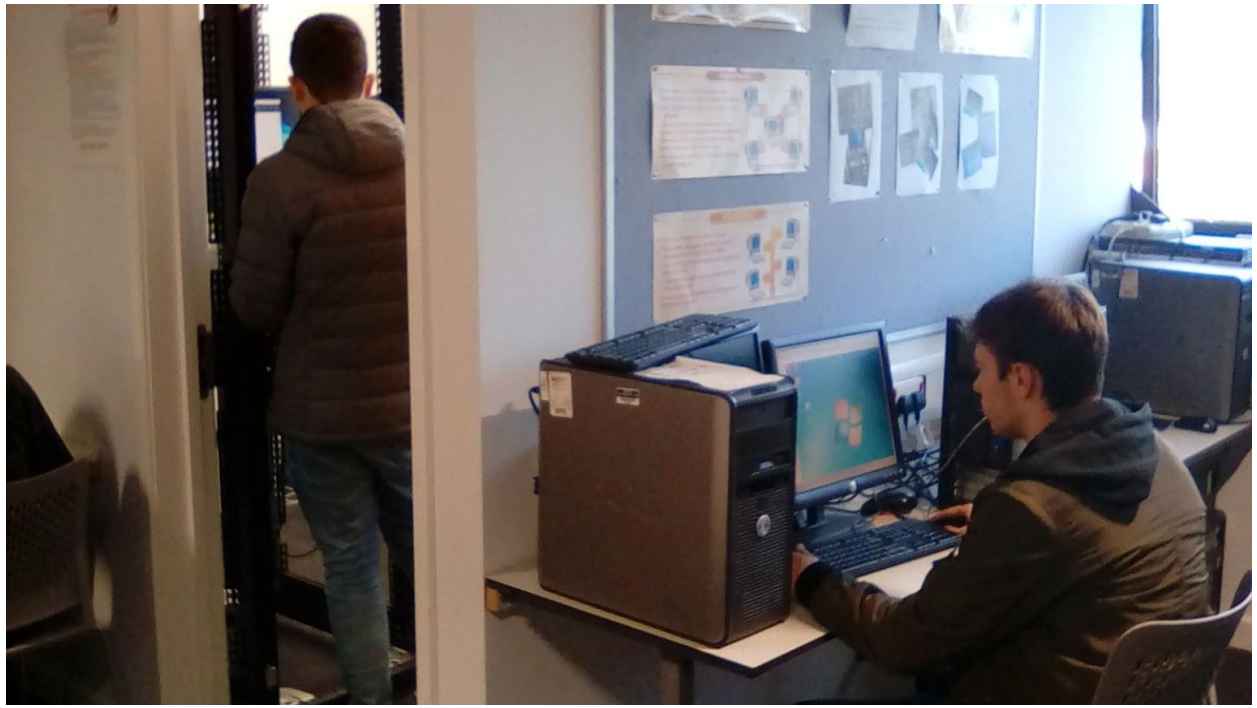
PROGRAMMING LABS
BRAINTREE/COLCHESTER CAMPUSES

We have dedicated programming labs with industry standard equipment available at both campuses where you will be studying Python, Java, Games and Website Development.

Colchester Institute

Computing

HARDWARE LAB



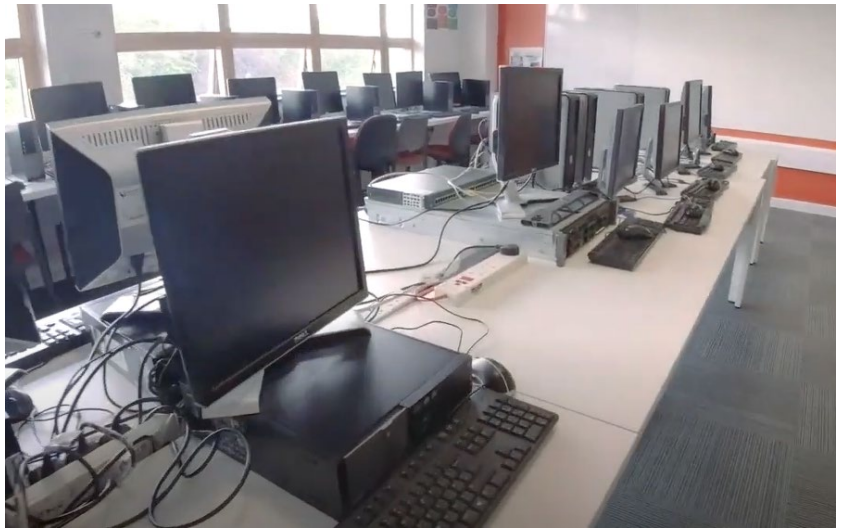
Colchester Institute

Computing

HARDWARE/NETWORK LAB
COLCHESTER CAMPUS

Click on the images to open the videos in YouTube

WATCH THESE VIDEOS NOW



Colchester Institute

Computing

OUR UNIQUE SELLING POINTS

- Full time course studied over 3 days a week
- Level 3 courses attract UCAS points
- Allocation of a personal tutor
- Class sizes of approximately 20-24
- Staff with extensive industry experience as well as academic and vocational qualifications
- Students develop a range of skills and abilities that may include:
  - Presenting information in a range of formats
  - Project Management
  - Extra curricular activities
  - Planning and organising charity events
- 29% of students achieve D-D* in their first year and 47% of students achieve DDD – D*D*D in their second year

Colchester Institute

Computing

UCAS POINTS

Pearson BTEC Level 3 National Extended Diploma

Grade	Tariff points
D*D*D*	168
D*D*D	160
D*DD	152
DDD	144
DDM	128
DMM	112
MMM	96
MMP	80
MPP	64
PPP –	48

Pearson BTEC Level 3 National Diploma

Grade	Tariff points
D*D*	112
D*D	104
DD	96
DM	80
MM	64
MP	48
PP	32

Colchester Institute

Computing

FUTURE CAREERS

Network Engineer

Salary

Entry level £20,000

With Experience £35,000 - £55,000

Qualifications

Usually need a degree in a subject such as:

Computer Science

Computer Software/Computer Systems Engineering

Computer systems and networks

CISCO

Employers

Banks and building societies

Retail groups

Government departments

Schools, Colleges and hospitals

Colchester Institute

Computing

FUTURE CAREERS

Software Engineer/Web and Games Developer

Salary

Entry level £19,000

With Experience £35,000 - £50,000

Lead developers £60,000 - £75,000

Qualifications

Usually need a degree in:

Computer Games (development or design)

Computer Games programming

Computer software/Computer systems engineering

Computer Science

Web design and development

Employers

Educational institutions

Marketing and advertising agencies

Mobile phone companies

Design companies

Colchester Institute

Computing

FUTURE CAREERS

Salary

Entry level £25,000

With Experience £35,000 - £50,000

Qualifications

Usually need a degree in:

Cyber/Information/Network Security

Computer Science

Software Engineering

Computer forensics

Criminology

Cyber Security Analyst

Employers

Professional services

Security consultancy

Information technology

Financial Service institutions

Government including security services – GCHQ and MI5

Colchester Institute

Computing

CASE STUDY

Wil joined the BTEC Level 3 Extended Diploma in 2017 after an unfulfilling year at Colchester Sixth Form College which he ended with only 1 AS level to his name in IT, 52% attendance and a passion to pursue web development, the one thing he had enjoyed at sixth form. During the first year he worked hard to find a work experience internship in local web development and marketing companies, finally securing an internship at Braintree District Council in their web department during the summer.

He had glowing reports from his colleagues and supervisor whilst he was there, and was thrilled to receive a phone call some weeks following its finish, offering him a 15K part-time role in the department which he continued despite the travel distance and pressures of coursework throughout the second year of his course, completing this with a grade equivalent to three A*s at A level and the offer of a permanent job within the department when his course came to an end.

As if this was not enough, when a more senior job arose as Digital Services Officer, he applied and was accepted! As he said at the time, 'his dream job at only 19 years old' – all because of the skills he gained from his course, and the work experience he sought with such determination!