

Higher National Diploma in Computing and Systems Development*

This course is design to equip you with the knowledge, understanding and skills required for success in current or future employment or for progression to an undergraduate degree.

The course is designed for those interested in pursuing a career in computing and who would like to study the application of computing in business and e-commerce.

The course will give you a comprehensive overview and thorough grounding in the main areas of modern computing, providing you with the practical skills required in this competitive international commercial environment. It develops an appreciation of the need to implement a structured approach to programme design and the associated skills. It also provides a framework for sound technical and professional practices and the opportunity to develop both independent and co-operative work.

Entry requirements

- 120 or more UCAS points which must include one full GCE A level (A2) in Maths, Science or IT or a BTEC National Diploma or equivalent.
- Plus GCSE English and Maths at Grade C or above (or equivalent)

Mandatory Units:

- Business Skills for E-Commerce
- Computer Systems
- Employability and Professional Skills
- Project Design, Implementation and Evaluation
- Database Design Concepts
- IT Support for End Users
- E-Commerce Strategy
- Digital Image Creation
- 3D Computer Modelling and Animation

Specialist Units:

- Research Skills
- Human Computer Interaction
- Website Design
- Computer Games Design and Development
- Programming in Java
- IT Security Management
- Digital Forensics

Study Route

Full-time over two years

Location

Welwyn Garden City Campus

UCAS Code: I100

Institution Code: O12

Progression

This course can lead to direct progression to the second or third year of an honours degree in computing, or a closely related discipline, at a university. It will also enable progression on to further study such as a Professional Development Qualification or vendor qualifications offered by

companies such as Cisco and Microsoft.

The HND in Computing and Systems Development offers a progression route to a number of roles in the IT and computing sectors fulfilling roles such as database management, systems design and networking.

HIGHER
EDUCATION THAT
WORKS

```
import java.net.*;
import java.security.*;
import javax.net.ssl.*;

public class Client {
    public void sendAuthentication(
        OutputStream outputStream) throws
        IOException {
        DataOutputStream out = new DataOutputStream(
            outputStream);
        long t1 = (new Date()).getTime();
        double q1 = Math.random();
        byte[] protected1 = protect(
            t1, q1);
        long t2 = (new Date()).getTime();
        double q2 = Math.random();
        byte[] protected2 = protect(
            t2, q2);
        out.writeUTF(user);
        out.writeInt(protected1);
        out.writeUTF(protected2);
        out.flush();
    }

    public static void main(
        String host = args[0],
        int port = 7999,
        String user = "John",
        String password = "123456",
        Socket s = new Socket(host, port)) {
        Client client = new Client(s);
        client.sendAuth(
            s.getOutputStream());
    }
}
```

Did you know?

A computer as powerful as the human brain could perform 38 thousand trillion operations a second and hold around 3,584 terabytes of memory.



does this work for YOU?