

# Software Development

## INTRODUCTION

This course focuses on the key skills required to design, develop and test software that behaves reliably and efficiently. Students will learn the fundamentals of how to build commercially sound and robust applications using Java and Python, and how to develop web sites using HTML and CSS. The student will also learn and apply modern software development methodologies, including Scrum and Kanban. Students participate in site visits.

## ENTRY REQUIREMENTS

Leaving Certificate with at least a pass grade in mathematics or relevant computer experience. Mature students are exempt from Leaving Certificate requirement. All applicants are interviewed. An offer of a place on this course is contingent on the applicant meeting the entry requirements set out here and satisfactory presentation at interview.

## CERTIFICATION

QQI Level 5 Certificate in Software Development 5M0529

## WORK PLACEMENT/EXPERIENCE

Students will undertake a block work placement of 2 weeks in the IT area.

## EDUCATION PROGRESSION OPPORTUNITIES

**CIT/MTU:** IT Management (CR310), Software Development (CR106 and CR116), **Inholland (Haarlem, The Netherlands):** Information Technology and Mathematical Engineering **UCC:** BIS (CK203), Computer Science (CK401), Psychology and Computing (CK121) **CCOC:** QQI Level 6 Advanced Software Development 6M0691

Special arrangements in place with CIT/MTU (CCPS), Tralee IT/MTU and Waterford IT for preferential entry for CCOC students. Up to 390 CAO points for any IT can be attained. Go to our progressions database at <https://corkcollegeofcommerce.ie/progressions/> for exact requirements on progressions for this course.

## CAREER OPPORTUNITIES

On successful completion of a full award, the student can apply for an entry level position as a programmer, an app developer, a website developer or a networks technician. The student is also very employable as a customer service operator, especially in the area of troubleshooting general computer problems.

## COURSE CONTENT

Fundamentals of Object Oriented Programming (Java)	5N0541
Software Architecture	5N2772
Programming & Design Principles (Python)	5N2927
Web Authoring (client side)	5N1910
Networking Essentials	5N2929
Maths for Information Technology	5N18396
Communications	5N0690
Work Experience	5N1356

### Additional Training/Workshops

Data Analytics

Data Protection

STEM Aspire Mentorship Programme (for female students), run by Dell EMC

## CONTACT DETAILS

For further information email:  
**computing@ccoc.ie**  
**(021) 4223834**

Course fees outlined on  
**[www.corkcollegeofcommerce.ie](http://www.corkcollegeofcommerce.ie)**