

# HIGHER CERTIFICATE IN DATA SCIENCE


**Duration:**

Two Years  
Full-Time

**CAO Code:**

NC105

**CAO Points Guide:\***

200


**NFQ Level:**

Level 6

**SUSI**

\*This is a guide only, points vary each year.

## About the Course

NCI's Higher Certificate in Data Science uses a blend of computer science and data science to provide you with the knowledge and skills necessary to carry out data modelling, data management and data analysis activities, and to interpret and communicate that data to a variety of audiences.

The programme gives you the mathematics, programming, and problem-solving skills required to exploit data in addressing real-world problems. You will also develop your problem-solving, teamwork, critical thinking, and communication skills. Graduates of this course can identify, clean, integrate, select, transform, and mine different types of datasets, with due consideration for ethical, privacy, and data protection issues, in order to summarise and present new knowledge; design, implement, and document algorithmic solutions using processes, methodologies, tools, and techniques to solve known problems; and utilise statistical analysis, modelling, data mining, and machine learning tools and techniques to analyse datasets.

## Who is the course for?

This course will be particularly appealing to students who are unsure about enrolling in a degree programme initially and see the Higher Certificate as a progression route to a degree at a later stage. The course is for school leavers, mature students and graduates of QQI level 5/6 programmes.

## Career Prospects

This course will equip you with the technical computer science and data science skills to build a successful career as a technician in the areas of computing, data management and data analysis.

## Course Structure and Award

This two-year Higher Certificate course is run over four semesters with continuous assessment held throughout the course and examinations at the end of each semester. On completion, you will receive a QQI Higher Certificate in Data Science at level 6 on the National Framework of Qualifications.

## Further Study Options

Upon successful completion of the Higher Certificate in Data Science, graduates can gain entry directly into year three of the BSc (Hons) in Data Science at NCI.

## Course Fees

This course qualifies under the Free Fees Initiative and Student Grant Scheme.

## Admission Requirements and Policies

Minimum entry requirements are a grade O6/H7 or above in five subjects. A minimum of grade O4/H7 must be obtained in Mathematics. A minimum of grade O6/H7 must be obtained in English or Irish. Mature applicants, applicants with a disability or those applying through the DARE or HEAR access schemes should refer to our Admissions section on p56, which also includes our admission policies, including laptop requirements.

Applicants from a PLC/further education course must meet the CAO points requirement, have a full level 5/6 award, and achieve three distinctions. One distinction must be held in one of the following modules: B20029 or C20139 or C20174 or C20175 or N33029 or 4N2138 or 5N0554 or 5N0556 or 5N16654 or 5N1833 or 5N18396 or 5N2066 or 6N3395 (or O4/H7 in LC Mathematics).

## Laptop Requirements

While access to a suitable PC or laptop is recommended for all students, it is not required for full-time students on this programme to bring their own device.

