



# HNC Schools Pathway



# Computer Aided Draughting and Design.

- Higher National Certificate
- SCQF Level 7
- 2 afternoons online and one day a week on campus
- Motherwell and Cumbernauld
- **Entrance requirements:** 1 Higher, would be advantageous to have Nat 5 Design for Manufacture or Graphical Communications
- **Progression:** HND at New College Lanarkshire before moving on to a guaranteed 3<sup>rd</sup> year degree place at UWS

## Course Outline

This course is designed to give you the practical skills and knowledge to become a successful draughtsperson/designer in the industry of your choosing. Some of the skills you will develop include:

- 2D draughting to British International standards
- Knowledge of the design process working through live team projects
- 3D software packages used in the engineering, manufacturing and construction industries
- 3D Printing and Scanning technologies and visualisation software

## Course Content

The knowledge and skills you will develop will focus on:

- Autodesk Inventor
- Fusion (Cloud Based CAD)
- Revit
- AutoCAD
- Engineering draughting principles
- Architectural draughting principles
- Construction detailing
- Product Design process
- 3D modelling
- 3D printing and scanning
- Visualisation and rendering
- Microsoft Office suite

You will be given the opportunity to showcase your skills and knowledge as you study the HNC with the completion of an end of year design project. Opportunities are also available to work on real-life projects and take on vendor qualifications such as Autodesk Certified User and professional exams.

# Construction Management.

- Higher National Certificate
- SCQF Level 7
- 2 afternoons online and one day a week on Motherwell campus
- **Entrance requirements:** One Higher and it is advantageous to have National 5 Graphical Communications or Design for Manufacture
- **Progression:** HND at New College Lanarkshire before moving on to a guaranteed 3rd year degree place at UWS

## Course Outline

This course is designed to give you the practical skills and knowledge to become a successful manager in the industry of your choice. Some of the skills you will develop include:

- Construction Materials and Specifications
- Building Measurement and Cost Studies
- Building Science
- Construction Technology: Industrial/Commercial Superstructure
- Building Services: An Introduction
- 2D CAD (Computer Aided Design)
- Health and Safety in Construction

## Course Content

The knowledge and skills you will develop will focus on:

- Standard Forms of Construction Contracts
- Construction Site Surveying
- Construction Planning
- Building Services in Large Buildings
- Site Administration
- Construction Technology: Substructure
- Mathematics for the Built Environment
- Structural Mechanics

As part of the course, you will showcase your skills and knowledge gained with the completion of an end of year Graded Unit project.

Throughout your studies, you will be given the opportunity to work on real life

projects and undertake additional bolt-on qualifications in Health and Safety and the Site Managers Training Scheme award.

COMPUTING

# Cyber Security.

- Higher National Certificate
- SCQF Level 7
- 2 afternoons online and one day a week on campus
- Motherwell and Coatbridge
- **Entrance requirements:** Working towards relevant National Qualifications ( Computer Science, Maths, Sciences) or Equivalent NPAs at Levels 5 or 6 and/or recommendation from Pupil Support Teacher
- **Progression:** HND at New College Lanarkshire before moving on to a guaranteed 3rd year degree place at UWS

## Course Outline

This course is designed to give you the practical skills and knowledge to become a successful cyber security specialist in the area of your choice.

Some of the skills you will develop include:

- Operating system configuration
- Computer networking
- Ethical hacking
- Digital forensics
- Data security
- Coding
- Team working
- Legal and Ethical Implications

## Course Content

The knowledge and skills you will develop will focus on:

- Relevant contemporary cyber security tools
- Virtualisation
- Legal and ethical issues
- Microsoft Office suite
- Operating system configuration
- Computer networking
- Ethical hacking
- Digital forensics
- Data security
- Coding
- Team working

You will be given the opportunity to take on vendor qualifications such as CISCO, Microsoft and CompTIA professional exams. These additional, highly sought after qualifications will enhance your skills and boost your employability.