

## Mechanical Engineering - Technical Route

Ideal if you want to gain a broad understanding of mechanical engineering.

You'll learn mechanical principles and applications, drawing/CAD, CNC (Computer Numerical Control), health and safety, maths for engineers and material science.

Expect to gain the practical skills and knowledge to work in an environment requiring a high level of technical skill and responsibility.

You'll love the opportunity to get involved in the annual WorldSkills UK CAD competition and visit local companies.

At level 3 you will have two options to choose from in your engineering training; the City & Guilds (Craft) route which will be a continuation from City & Guilds Level 2 while the BTEC Level 3 (Technical) route will be the next step after your GCSEs or equivalent.

Both of our level 3 Mechanical Engineering Diploma courses, are delivered in well-equipped teaching rooms making this a great place to learn about a wide variety of subjects and topic areas. The subjects studied will give you a very good grounding and are delivered in both a theoretical and practical way. The equipment used in the rooms are industry standard and most of the software/simulation packages used are the same as those used in industry.

### Level 3 Extended Diploma in Engineering Technologies

The Level 3 Extended Diploma in Engineering Technologies provides you with a solid base on which to build in preparation for your exciting journey in becoming a qualified Engineer. It enables you to gain an industry recognised technical qualification and is designed to cater for both part time (generally apprentices) and full time students. It will usually take 2 years to achieve. It is equivalent to 1.5 or 3 A levels and accredits UCAS points.

This qualification will give you a sound understanding of the technical aspects of Mechanical Engineering and can lead on to higher level qualifications such as an HNC/D and/or a University Degree.

You will use our specialist facilities, a fully equipped CAD suite using Solidworks® Premium boasting both mechanical modelling and drawing along with full simulation such as finite element analysis (FEA) and Computational Fluid Dynamics (CFD). Our students are eligible to have this software package licensed for home use and so nothing will get in your way!

You'll study a range of topics including Mechanical Principles, Maths for Engineers, Materials Science, Health and Safety, Engineering Drawing/CAD and Computer Numerical Control (CNC) to name a few.

The qualification can be obtained by completing assignments that are based on realistic workplace situations, activities and demands. You will expand your knowledge to work in an environment requiring a high level of skill and responsibility. We have fantastic links to local industries and will help you to gain useful work experience.

You can study at this level full time over two years,

See alternative listing for the Craft Route

## Entry Requirements

Typical Entry Criteria Four GCSE subjects at Grade 4 and above and GCSE Math at Grade 5 Gloucestershire College welcome any other/combinations of relevant qualifications that are comparable and/or equivalent to the typical course entry requirements.

For 19+ applicants that do not have recognised qualifications may still meet course entry requirements through alternative methods of assessment at the College's discretion.

All queries regarding course entry criteria including the equivalency of qualifications and exceptional extenuating circumstances should be directed by email to the Admissions Department through [applications@gloscol.ac.uk](mailto:applications@gloscol.ac.uk).

## What's Next

You can progress on to higher education at Gloucestershire College, including HNC/HND and Foundation Degree options, university or employment.

## Your Options

	Start Date	End Date	Course Level
<b>Mechanical Engineering - Technical Route (Full Time)</b>			
Gloucester	06/09/24	28/06/26	3

