

■ FOR MORE INFORMATION

AM FWY O WYBODAETH

Students interested in studying Computer Aided Design should contact subject staff or the Learning Manager responsible for the subject.

YSGOL UWCHRADD



Subject Staff
Staff y Pwnc

Mr Philip Barnes B.Sc. (Hons)
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Rheolwr Addysgu

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**COMPUTER AIDED
DESIGN**

**CYNLLUNIO DRWY
GYMORTH
CYFRIFIADUR**

Technology Learning Area

Course Director: Mr Philip Barnes

The use of Computer Aided Design (CAD) systems in industry has become an essential part of the modern working environment. CAD has an important role to play throughout the entire design process from the initial conceptualisation, production of working drawings, virtual reality simulation and finally with the development of fully functioning prototypes.

This City and Guilds course is aimed for students looking to obtain a Level 3 qualification in Computer Aided Design using Parametric Modelling software.

Students will begin at Level 1, reaching Level 3 by the end of the 2 year course.

All qualifications follow the same format with 2 class based assignments and a short written test.

Level 1 – This unit will equip candidates with an understanding of the CAD Parametric Modelling environment, in terms of hardware, software and physical surroundings. It will explore the typical composition of a CAD Parametric Modelling system and Health and Safety matters that are associated with safe working practices.

Level 2 – This unit aims to deepen the learners' understanding of the CAD Parametric Modelling environment and its application. It will enable the learner to develop the knowledge and skills to create sketches, work features, table driven parts and assemblies, understand constraints and be able to create a drawing layout.

Level 3 – This unit will enable the learner to develop the knowledge and skills to generate and edit advanced models / assemblies using data driven parameters and to produce photorealistic rendered animations.

On successful completion of the course it is hoped that candidates will use their newly acquired skills to pursue a career in any one of the following disciplines -

- Architecture
- Interior Design
- Produce Design
- Engineering
- Manufacturing