

Designing, Engineering and Constructing a Sustainable Built Environment

Subject Information Sheet

Course Title:	Design, Engineer and Construct
Subject:	Designing, Engineering and Constructing a Sustainable Built Environment
Qualification:	Level 3 Diploma (applied general)
Exam Board:	TQUK
General Course Description	<p>The course will take students through all aspects of the built environment and the processes to Design, Engineer and Construct a building. Site identification, stakeholder needs, Architecture, planning, structural engineering, landscape architecture, quantity surveying and project management.</p> <p>They will develop a building using professional software (Autodesk REVIT) that will meet the needs of the people of Sheffield.</p>
Course Content and Teaching Units	<p>Unit 1: Defining a Sustainable Construction Project 12 credits (60 GLH)</p> <p>Unit 2: Developing a Sustainable Construction Project 10 credits (60 GLH)</p> <p>Unit 3: Support Design, Structural and Services aspects of a Sustainable Construction Project 8 credits (60 GLH)</p> <p>Unit 4: Lifecycle and Financial Planning for a Sustainable Construction Project 10 credits (60 GLH)</p> <p>Unit 5: Evaluating and Documenting a Sustainable Construction Project 10 credits (60 GLH)</p> <p>http://teachers.designengineerconstruct.com/curriculum/criteria-outcomes/level-3/</p>

Entry Requirements	5 in Maths and 5 in Product Design, Art or Geography Level 2 DEC (ideal)
Assessment	A coursework assignment to design a sustainable building in Sheffield that meet the changing needs identified in the city plan Exam of all the key terms and knowledge. http://teachers.designengineerconstruct.com/curriculum/criteria-outcomes/level-3/
Financial Information	Free copy of Autodesk REVIT to use at home.
Progression Opportunities	University to study: Architecture, Architecture technology, Building Services Engineering, Built Environment, Civil Engineering Construction project management, Land Surveying, Quantity Surveying, Structural engineering, Town Planning, High Level Apprenticeship within the Built Environment and construction
Further Information about our courses including results	A number of the students have taken part in work experience with local Architects, project managers, quantity surveyors, structural and civil engineers. One of our Y12 students secured a High level apprenticeship with Arup following a work placement. 2017-2018 A*-B = 100%
Trips, visits and extra-curricular	Site visits to Kelham Island, ARUP & BDP companies. Working with Engineers from our partners ARUP, lecturers and students from Sheffield University and Sheffield Hallam University. Work experience can be arranged with multinational firms within different disciplines