



Thomas Telford  
University Technical College

# Work Related Learning Programme

2022 / 2023 *What makes us different?*



BAILY  
GARNER



BARRATT  
DEVELOPMENTS PLC



Balfour Beatty



THE CHARTERED INSTITUTE OF BUILDING



derry building services



GallifordTry

At Thomas Telford UTC we pride ourselves on providing a high quality core curriculum in all of the core subjects students study in any mainstream school. However, for those students interested in Innovation, Design and Construction we go further with qualifications that are selected for the content that will help them 'get ahead'. We truly are focussed upon creating future talent for these sectors that has no equal.

To enable this, we work with a range of Employer Sponsors, to make unique learning experiences come alive and to give students experience of working alongside professionals from the sector.

Not only is the UTC fortunate enough to be a part of the Thomas Telford group of schools, it is also closely affiliated with Wolverhampton University. We also have very strong partnerships with a number of high profile, major construction companies. It is working closely with these companies that allows us to develop a curriculum fine tuned to meet the needs of the industry and provide high quality delivery and experiences.



WILLMOTT DIXON



Turner & Townsend



ST. MODWEN  
HOMES



SAINT-GOBAIN



R·M·D  
KWIFORM



RICS



KIER

LOVELL



Midland  
Metro Alliance



MORGAN  
SINDALL  
INFRASTRUCTURE



PASQUILL  
SAINT-GOBAIN



QSi



REDROW

Strand:		Year(s)	Course	Description		
Employer Group Meetings and Open Days				Meetings to review and develop our offer as well as provide advice and guidance to parents prospective students.		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Employer Group Meeting 1					
2	Open Evening Y10/12				tbc	
3	Employer Group Meeting 2					
4	Employer Group Meeting 3					
5	Open Day Y10/12				tbc	
6	Employer Group Meeting 4					
7	Employer Group Meeting 5					
8	Employer Group Meeting 6					
9	UTC Showcase Celebration					
10						
11						
12						
Notes						

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
Unit 1: Sponsored Unit				Construction Principles: Including Lighting, Thermal and Acoustics, material properties and construction techniques.		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
Notes						

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
Unit 2/4: Sponsored Unit				Construction Technology and Construction Design: Including Site Investigation, Ground remediation, foundations, building elements and systems, utilities and drainage and design processes		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Guest Lecture : Ground Remediation					
2	Guest Lecture: RIBA Plan of Works					
3	Guest Lecture: Site Design (Pre Construction)					
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
Notes						

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
Unit 5: Sponsored Unit				Health and Safety: Including Risk assessments, method statements and reporting.		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Guest Lecture - The need for H&S					
2	Guest lecture - Review of safety systems					
3	Example resources: Method Statements					
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
Notes						

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
Unit 6: Sponsored Unit				Surveying in Construction, including use of equipment, booking sheets, level and linear surveys.		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Y12 Guest Lecture / Workshop - Setting Out and careers					
2	Y13 Guest Lecture / Workshop - Setting Out and careers					
3	Geospatial Demonstration					
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
Notes						

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
Unit 7: Sponsored Unit				Graphic Detailing in Construction		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Guest Lecture on technical drawings and professionalism in the industry				Y	
2	AR/VR/MR Demonstration					
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
Notes						
Cliff - RMD Kwikform						

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
Unit 8: Sponsored Unit				Building Regulations and Control including all regulations, processes and enforcement		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Guest Lecture: Introduction to Building Regulations					
2	Guest lecture: NHBC Compliance at residential housing site					
3	Guest Lecture: Practice application Launch					
4	Guest Lecture: Practice application Submission and Review					
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
Notes						
<p>Geoff is happy for you to get in touch directly to discuss:</p> <p>Geoff Mann BSc (Hons), MCIQB, Cert. Ed. Industry Training Manager, NHBC Direct tel: 01827 63021 Mobile: 07733 014772   email: gmann@nhbc.co.uk</p>						

10 OPT - Tues AM

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM



Strand:		Year(s)	Course	Description		
Unit 40: Sponsored Unit				Offsite and Onsite Manufacturing		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Visit to OffSite Expo					
2	Guest lecture: The importance of adopting offsite manufacturing and MMC					
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
Notes						
Bruce? Space 4? Green Space Accord - Jayne Dan B BG - Phil Eves - BAM / EH Smiths?						

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
Unit 41: Sponsored Unit				Renewable Energy Use in Residential Developments		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Site Visit to see good practice sustainable construction of residential properties - focus on sustainable energy and building fabric changes/decisions e.g. insulation, windows...					
2	Guest Lecture: The importance of adopting sustainable design					
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

**Notes**

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM, Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon-Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
T-Levels (Surveying, Design and Planning for Construction)				Employer Engagement Opportunities supporting delivery and content of T-Levels		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	HS2: Bailey Garner - Guest Lecture on RIBA DPoW					
2	HS2: BAM: Procurement and tendering / CPA and Gantt Charts guest lecture					
3	VA: Turner & Townsend - Guest Lecture as Consultants on the Project					
4	HS2: MMA Bridge Design and Procurement					
5	HS2: TunnelSkills Experience					
6	VA: Guest Lecture OR Site Visit on Alternative Energy					
7	HS2: CWC Planning (Considering Station Designs)					
8	VA: BAM Project Management and Monitoring Guest Lecture					
9	DD: BAM: Guest Lecture Dover Western Docks or similar project					
10	DD: BAM: QA and Project Management					
11	TT: Demonstration of Point Cloud Surveying					
12	DD: Structural Engineer Guest Lecture				Y	
13	TT: Thames Tideway Tunnel Visit					
14	DD: Site Visit Portal Frame and Building Envelope					
15	TT: BAM: Project Management and Teams / Procurement					

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

16	MB: CWC Planning: Introduction to good housing design. Meeting community needs.					
17	DD: Estimator Guest Lecture - Role and Career Opportunities					
18	RICS: RIBA DpoW Stage 0 - Commercial Projects - Case Study Presentation.					
19	RICS: Project Planning / Site management Guest Lecture					
20	RICS: Architectural Concept Design Case Study / Workshop					
21	MB: CWC Building Control Guest Lecture					
22	MB: Production Facility Tour					
23	RICS: MMC Delivery and Installation / Visit to MMC completed Building					
24	RICS: Building Handover Example / Talk					
25	RICS: Demolition Guest Lecture					

**Notes**

Activities are a mixture of face to face / remote and site visits as well as access to resources.

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
T-Levels (Surveying, Design and Planning for Construction)				Employer Engagement Opportunities supporting delivery and content of T-Levels		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Client Interview: Avoncroft Museum					
2	Client Interview: Victorian Baths					
3	Survey Support: Avoncroft Museum					
4	Site Survey / Visit					
5	Guest Lecture: Waste Management Planning and Legislation					
6	Guest Workshop: Using Leica Infinity Software					
7	Site Visit: Chasewater Innovation Centre					
8	Workshop: Design Principles / Research Guidance					
9	Environmental Performance Specifications: Guest Lecture / Visit					
10	Guest Lecture/Workshop: National Planning Policy Framework					
11	Consultancy Guest Lecture: Temporary Works with design problem introduction				Y	
12	Synchro 4D Support Workshop					
13	GT: Presentation of Design Drawings					
14	BREEAM Reporting: Guest Lecture					
15	Conservation Officer Guest Lecture					
16	Presentation of Design Ideas: Avoncroft Museum					

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

17	Presentation of Design Ideas: Victorian Baths					
18	Materials Testing Workshop					
19	Project Cost and Time Issues: Case Studies					
20	Digital Specification Tools: Guest Lecture					
21						
22						
23						
24						
25						

**Notes**

Activities are a mixture of face to face / remote and site visits as well as access to resources.

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
Designing the Built Environment: Unit 2				Drawing the Built Environment		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Guest Lecture / Careers in CAD and BIM					
2	Resources and Examples					
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
Notes						

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
Designing the Built Environment: Unit 3				Designing the Built Environment		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Guest Lecture - Sustainable approaches to housing					
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
Notes						
Phil - BAM Josh - Redrow - Video Doc on Making Places?						

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM



Strand:		Year(s)	Course	Description		
Constructing the Built Environment: Unit 3				Planning and Completing Practical Tasks		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Y11 Guest Lecture: Project Planning - Gannt charts, process order.					
2	Y10 Guest Lecture: Project Planning - Gannt charts, process order.					
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
Notes						

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
Improving Employability Skills				Employer Led Projects designed to compliment the taught curriculum and support development of the 'soft' employability skills.		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Site Visit T-Levels (12)					
2	Site Visits Residential (4 groups of 15) (11)					
3	Site Visits Commercial (4 groups of 15) (12)					
4	Project Launch: Architectural (11/13)				Y	
5	Interim Presentations: Architectural (11/13)				Y	
6	Final Presentations: Architectural (11/13)				Y	
7	Project Launch: Infrastructure (12)				Y	
8	Interim Presentations: Infrastructure (12)				Y	
9	Final Presentations: Infrastructure (12)				Y	
10	Project Launch: Residential (10)				Y	
11	Interim Presentations: Residential (10)				Y	
12	Final Presentations: Residential (10)				Y	
13	UTC Showcase (7/8)				Y	
14	School Awards and Presentation Evening					
15						
Notes						

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
Careers Advice and Guidance				Visiting Speakers and Visits to relevant institutions and shows designed to raise aspirations and inform students about their next steps.		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Labour Market Presentation: Opportunities and breadth of the construction sector. (10/12)					
2	'Guess My Job' - Employers quizzed by students in small groups to establish roles. (Students then go on to produce 'job cards') (10/12)					
3	Mock Interview Workshop - Prep (10) / CV					
4	Introduction to Apprenticeships (12)					
5	Launch Wex (10/12)					
6	Mock Interviews (10)					
7	Work Experience (10/12)					
8	1:1 Careers Guidance					
9	Employer Mentor Meetings (Introduction) with groups of up to 6 (10/12)					
10	Launch UCAS/Unifrog (12)					
11	Personal Statement Workshop (12)					
12	Choose Uni / Real Degree, Fake Degree (12)					
13	University Finance (12)					
14	Work Experience (10/12)					

**Notes**

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
Careers Advice and Guidance				Visiting Speakers and Visits to relevant institutions and shows designed to raise aspirations and inform students about their next steps.		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	We Want You Event with employers and university representatives (11/13)					
2	Personal Statement Surgery (Y13)					
3	One to One Careers Interviews Begin (11/13)					
4	Visit to UK Construction Week (13)					
5	Work Experience (11/13)					
6	CV Workshop and Support (11)					
7	UCAS / apprenticeship CV Completion (Y13)					
8	Employer Mentor Meetings (Second Meeting) (11/13)					
9	Mock interviews (13)					
10	Apprenticeship Assesment Day Workshop (Y11/13)					
11	Mock Interviews (11)					
12	Employer Mentor Meetings (FinalMeeting) (11/13)					
13	Career Story Event with carousel of 5 minute presentations from a variety of roles. (11/13)					
14	Careers Fayre - Large event with employers and FE/HE providers presenting to students on opportunities	10 OPT	Tues AM			

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

15	World Skills Live Visit (11/13)					
16	University Finance/ accomodation workshop (13)					
17						
18						
19						

**Notes**

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
Year 7 Introduction to Construction Sector				Employer Project based approach to curriculum delivery and set challenge.		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Introduction to Company					
2	Visit to demonstrate full University VR rig					
3	Project Launch					
4	Project Presentations (Interim)					
5	Project Presentations (Final)					
6	Provide Site information and Survey details as appropriate for 4/5 residential sites					
7						
8						
9						
10						
Notes						

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
Year 8 Built Environment				Employer Project based approach to curriculum delivery and set challenge.		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Introduction to Company / Project Launch					
2	Site Visit? Commercial Steel Frame Buildings					
3	Project Presentations (Interim)					
4	Project Presentations (Final)					
5	Visit Alton Towers					
6						
7						
8						
9						
10						
Notes						

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM

Strand:		Year(s)	Course	Description		
Year 9 Built Environment				Employer Project based approach to curriculum delivery and set challenge.		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
Notes						

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM



Strand:		Year(s)	Course	Description		
Year 7 / 8 Careers Education				Careers Education		
Event	Detail	Date	Time	Employer Contact	Agreed	Completed
1	Introduction to Jobs and Careers				Y	
2	Why University?				Y	
3						
4						
5						
6						
7						
8						
9						
10						
Notes						

7 - Mon PM  
8 - Wed AM  
9 - Mon AM

10 OPT - Tues AM  
10 - Wed AM; Fri AM  
11 OPT - Tues AM  
11 - Mon AM; Fri AM

12T 13T - Mon -Wed  
12S 13S - Thurs PM; Fri PM  
12D 13D - Thurs AM; Fri AM