



Programme Specification

Civil Engineering {Apprenticeship-UWE} [Frenchay]

Version: 2026-27, v3.0, Validated

Contents

Programme Specification.....	1
Section 1: Key Programme Details.....	2
Part A: Programme Information	2
Section 2: Programme Overview, Aims and Learning Outcomes	3
Part A: Programme Overview, Aims and Learning Outcomes	3
Part B: Programme Structure.....	7
Part C: Higher Education Achievement Record (HEAR) Synopsis	10
Part D: External Reference Points and Benchmarks	10
Part E: Regulations	10

Section 1: Key Programme Details

Part A: Programme Information

Programme title: Civil Engineering {Apprenticeship-UWE} [Frenchay]

Highest award: BEng (Hons) Civil Engineering

Interim award: BEng Civil Engineering

Interim award: DipHE Civil Engineering

Interim award: CertHE Civil Engineering

Awarding institution: UWE Bristol

Teaching institutions: UWE Bristol

Study abroad: No

Year abroad: No

Sandwich year: No

Credit recognition: No

School responsible for the programme: CATE School of Engineering, College of Arts, Technology and Environment

Professional, statutory or regulatory bodies:

Joint Board of Moderators

Apprenticeship: Apprenticeship Standard ST0417 1.1

Modes of delivery: Full-time

Entry requirements: For the current entry requirements see the UWE public website.

For implementation from: 01 September 2024

Programme code: H29P13

Section 2: Programme Overview, Aims and Learning Outcomes

Part A: Programme Overview, Aims and Learning Outcomes

Overview: The award is designed and structured to provide an industry recognised, intellectually demanding, engaging and outstanding apprenticeship, aligned to Apprenticeship Standard ST0417 Version1.1, which enables graduates to enhance and accelerate their career prospects, and equips them with tools to respond to the Climate Emergency.

Apprenticeship Standard ST0417 v1.1 is an integrated apprenticeship. In order to complete the apprenticeship, learners must fulfil the gateway requirements as stipulated in the Standard, and successfully complete the integrated End-Point Assessment.

Features of the programme:

Educational Aims: On graduation from this Programme, a student will:

- Have knowledge, experience and understanding of engineering science necessary to develop engineering solutions and processes for an effective career in Civil Engineering.
- Through the enhanced experiential team-work, project-based learning Programme, civil engineering graduates will have an enhanced employability at the start of their careers.
- Have gained effective problem-solving skills and experience both within the specialisms of civil engineering and more widely through cross boundary activities within other engineering disciplines.
- Have knowledge, confidence and understanding to effectively contribute to sustainable built environment development and the mitigations and adaptations

necessary to respond to the Climate Emergency.

-Have gained the numerical skills appropriate and necessary for a potential international career.

-Have the creative skills and innovative ability to synthesize solutions to complex real-world problems with a holistic systems approach.

-Be able to reflect critically upon their learning and understanding, as the foundation for continuing professional development and progression to Chartered Engineer.

-Have practiced skills in communicating effectively with other professionals from a variety of disciplines, clients and the public, with understanding and respect for the objectives and values of other stakeholders.

Programme Learning Outcomes:

On successful completion of this programme graduates will achieve the following learning outcomes.

Programme Learning Outcomes

- PO1. Ability to apply critical civil engineering knowledge and theory into practice through practice-led and research-informed learning, demonstrating a comprehensive understanding of appropriate civil engineering laboratory testing and techniques.
- PO2. Apply the engineering principles appropriate to analyse key engineering processes in Civil Engineering infrastructures.
- PO3. Define and investigate a problem considering the impact on the natural and built environment, sustainability, climate emergency and associated ethical issues, health and safety and risk management.
- PO4. Develop creative and innovative design solutions following appropriate standards and codes of practice, embracing global sustainable development goals, cost drivers and functionality throughout the whole life cycle.
- PO5. Model civil engineering systems to be able to specify and assess technical designs to a relevant industry standard.

- PO6. Ability to communicate clearly and coherently using various general and engineering communication processes either as individuals or as members of a team.
- PO7. Reflect on their learning in the contexts of ethics, climate change and broader professional responsibilities, exhibiting an appreciation of complexity and recognition of the value of continuing professional development.

Assessment strategy: Learning will be assessed through a range of assessment methods appropriate to the learning outcomes of the modules and the Programme, including:

- Coursework
- Laboratory experiment exercises and reports
- Computer-based exercises
- Presentations
- Poster/Conference Presentations
- Design projects
- Final- Year Dissertation
- Self-reflective writing
- Portfolios
- Field Site exercises
- Examinations
- On-line tests and quizzes

The assessment strategy has been developed to expand progressive assessment where appropriate, to reinforce engagement and is informed by industry working approaches. Where learners are required to work with other learners and submit coursework as a group, these are typically assessed through a combination of peer- review and individual contribution. Written invigilated examinations have been minimized, with time managed online assessments and open book approach being adopted. All assessments are enquiry-based and assess particular Learning Outcomes.

Summative assessment feedback will be provided through a range of methods appropriate to the assessments including verbal feedback sessions, double marking process with written feedback and formative assessment feedback through small groups tutorials, emails and staff office hours for most modules.

Student support: Student support includes:

The info point services: This comprehensive student support service includes : Advice on Academic regulations and procedures, Extenuating circumstances, Module choices, student records including enrolment, and accessing student's records and what to do if unforeseen circumstances affect their studies.

Induction: All learners will be introduced to the School and its resources via a series of Health and Safety and introductory sessions. All teaching is sequential and learners will be fully supported in acquiring and applying the necessary learning skills.

The Library: The library offers information skills workshops to learners. There are opportunities in the curriculum that enable learners to develop information retrieval and evaluation skills in order to identify appropriate resources effectively. Such support is available through the Library Services web pages, including interactive tutorials on finding books and journals, evaluating information and referencing. Learners will also be introduced to and encouraged to use online databases.

Career Planning and preparation: The programme aims to enhance and accelerate the career prospects of our apprenticeship graduates and as such links directly to the University's employability strategy. The Programme has established and growing partnerships within civil engineering industries which inform the development and delivery of the curriculum and maintain the programme's currency and relevance within the sector.

UWE careers offer a wide range of accessible resources and services including one-one coaching and workshops.

Support for learners with additional needs: Consideration will be given to ensure and enable learners with additional needs are able to participate in all aspects of the academic and social life of the institution. The Programme team will monitor the effectiveness of provision for learners with additional needs and identify opportunities for enhancement. There is a comprehensive and robust student support structure throughout the University that the learners can access at any time.

Part B: Programme Structure

Year 1

Students must take 60 credits from the modules in Year 1.

The programme is designed as a BEng Honours degree allowing students to progress to study at Masters level and hence complete the Educational requirements for Chartered Engineer status. The BEng Honours degree forms part of the apprenticeship requirements of Standard ST0417. To complete the apprenticeship, all gateway requirements must be fulfilled and the external End-Point Assessment must be successfully passed.

Year 1 Compulsory Modules

Students must take 60 credits from the modules in Compulsory Modules.

Module Code	Module Title	Credit
UFMEAS-15-1	Professional Skills for Engineers 2026-27	15
UFMEBC-15-1	Digital Design in Civil Engineering 2026-27	15
UBGMKD-15-1	Civil Engineering Design and Technology 2026-27	15
UBGMY1-15-1	Construction Materials and Sustainability 2026-27	15

Year 2

Students must take 75 credits from the modules in Year 2.

Year 2 Compulsory Modules

Students must take 75 credits from the modules in Compulsory Modules .

Module Code	Module Title	Credit
UFMEB5-15-2	Project Management for Engineers 2027-28	15
UBGMXQ-30-1	Engineering Principles for Civil Engineering 2027-28	30
UBGMX1-30-1	Civil Engineering Field Skills and Surveying 2027-28	30

Year 3

Students must take 60 credits from the modules in Year 3.

Year 3 Compulsory Modules

Students must take 60 credits from the modules in Compulsory Modules .

Module Code	Module Title	Credit
UBGMUQ-15-2	Soil Mechanics 2028-29	15
UBGJFQ-30-2	Integrated Structural Engineering 2028-29	30
UBGJFN-15-2	Computational Civil Engineering 2028-29	15

Year 4

Students must take 75 credits from the modules in Year 4.

Year 4 Compulsory Modules

Students must take 75 credits from the modules in Compulsory Modules.

Module Code	Module Title	Credit
UFMEBD-15-2	Digital Automation for Civil Engineering 2029-30	15
UBGJCA-30-2	Hydraulics and its Applications 2029-30	30
UBGMM3-15-3	Advanced Structural Analysis 2029-30	15

UBGMWQ-15-3	Geotechnics 2029-30	15
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Year 5

Students must take 60 credits from the modules in Year 5.

Year 5 Compulsory Modules

Students must take 45 credits from the modules in Compulsory Modules .

Module Code	Module Title	Credit
UBGLY9-15-3	Infrastructure Design and Implementation Project 2030-31	15
UBGJFP-15-3	Transport Engineering Design 2030-31	15
UFMEAR-15-3	Professionalism for Engineering Apprentices 2030-31	15

Year 5 Optional Modules

Students must take 15 credits from the modules in Optional Modules.

Module Code	Module Title	Credit
UBGL66-15-3	Assessment and Mitigation of Natural and Anthropogenic Hazards 2030-31	15
UBGL68-15-3	Engineering Geology 2030-31	15
UBGLXP-15-3	Traffic Management and Safety 2030-31	15
UBGL67-15-3	Water Management 2030-31	15

Year 6

Learners must take 30 credits in Year 6.

Learners must have achieved 330 credits before they can pass through gateway and take the End-Point Assessment Module UFMEB3-30-3. The End-Point Assessment module UFMEB3-30-3 will begin in year 6. The duration of the programme will be 5 years 8 months.

Year 6 Compulsory Module

Learners must have achieved 330 credits before they can pass through gateway and take the End Point Assessment UFMEB3-30-3

Module Code	Module Title	Credit
UFMEB3-30-3	Civil Engineering Apprenticeship (Integrated) End Point Assessment 2031-32	30

Part C: Higher Education Achievement Record (HEAR) Synopsis

This Programme of study requires students to develop a sound intellectual knowledge and understanding of civil engineering science, design and application; enabling creative and innovative synthesis of holistic solutions to complex problems. Alongside these skills students are required to develop effective communication across multiple formats, to technical and non-technical audiences.

Part D: External Reference Points and Benchmarks

Set out which reference points and benchmarks have been used in the design of the Programme:

QAA UK Quality Code for HE:

- Framework for higher education qualifications (FHEQ)
- Subject benchmark statements : Subject Engineering 2023

Institute for Apprenticeships & Technical Education - Apprenticeship Standard
ST0417 version 1.1

Part E: Regulations

Approved variants to University Academic Regulations and Procedures.

The following relate to UFMEB3-30-3 Civil Engineering Apprenticeship (Integrated)
End Point Assessment:

Regulation D5 (Requirements to Pass a Module):

This module has two assessment tasks, each with a mark expressed as a grade:

Task 1: Project: technical report and presentation with questioning is graded Fail/Pass/Distinction.

Task 2: Professional discussion underpinned by a portfolio of evidence is graded Fail/Pass/Distinction.

The overall module outcome is graded Fail/Pass/Distinction in line with the Building Services Engineer assessment plan.

Regulations D6 (Failure of a Module) & D7 (Failure of a Module Resit):

A resit or retake will be capped at a pass, unless the university determines there are exceptional circumstances requiring a resit or retake.

The apprentice's employer will need to agree that either a resit or retake is an appropriate course of action.

Regulation D11 (Arrangements for Awards Classifications) & D12 (Requirements for the Award of an Undergraduate Degree):

The End-Point Assessment module grade will count towards the overall degree classification.

Additional requirements:

Compensation is not permitted for an End-Point Assessment module.

Approved to University Regulations and Procedures

The PSRB requirements below are permitted within the regulations.

The following requirements apply to awards which have been accredited by a PSRB that comes under the auspices of the Engineering Council UK:

- The permitted maximum compensated credit is 30 credits for a Bachelors or Integrated Masters degree, and a maximum of 20 credits in a Masters degree.
- The awarding of compensated credit may be considered for an overall module mark in the range of 30% to 39% for Levels 4-6 and 40%-49% for Level 7.
- Major individual and group-based project modules must not be compensated.