



Programme Specification

Transport [Frenchay]

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Section 1: Key Programme Details

Part A: Programme Information

Programme title: Transport [Frenchay]

Highest award: MSc Transport

Interim award: PGCert Transport

Interim award: PGDip Transport

Awarding institution: UWE Bristol

Affiliated institutions: Not applicable

Teaching institutions: UWE Bristol

Study abroad: No

Year abroad: No

Sandwich year: No

Credit recognition: No

Department responsible for the programme: FET Dept of Geography & Environmental Mgmt, Faculty of Environment & Technology

Contributing departments: Not applicable

Professional, statutory or regulatory bodies: Not applicable

Apprenticeship: Not applicable

Mode of delivery: Full-time, Part-time

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

For implementation from: 01 September 2023

Programme code: K4NA12

Section 2: Programme Overview, Aims and Learning Outcomes

Part A: Programme Overview, Aims and Learning Outcomes

Overview: The MSc Transport is a non-advertised programme associated with the MSc Transport Engineering and Planning programme.

MSc Transport exists to allow students enrolled on Transport Engineering and Planning from non-technical backgrounds the option to take a 'non-technical' 15-credit module from the MSc Urban Planning programme, as an alternative to the 15-credit Transport Infrastructure Design module. A spatial planning option module cannot be offered on the MSc Transport Engineering and Planning award, as the Transport Infrastructure Design module is required to meet the engineering accreditations associated with MSc Transport Engineering and Planning.

The course offers a year-long master's programme, with a two to three year part-time route and a flexible 'module gathering' option. It prepares students for, or supports students already working in, transport planning and/or engineering in a wide range of jobs including in local or central government, private and third sectors both in the UK and internationally.

Educational Aims: The general aims of the programme are:

To provide a coherent programme of advanced study in transport, underpinned by staff research, consultancy and scholarship, in which all staff members are engaged.

To provide a programme related to the needs of professional practice, that enables students to become effective transport practitioners.

To provide a programme that is academically challenging and encourages students to develop the capacity for critical thought and action.

To offer varied study patterns in order to broaden access to the programme (flexible

part-time study through the module gathering option);

Specific Aims

To analyse the complex relationships between transport and society;

To apply the concept of sustainability to spatial development and transport planning;

To use techniques of analysis of transport systems at an advanced level, drawing on an understanding of demand management and the role of different modes of transport.

To identify and evaluate policy and funding mechanisms in the context of current and emerging transport issues in the UK, the European Union, and beyond;

To design and conduct rigorous research.

To develop additional transferable skills in communication, presentation and the management of learning.

To identify, classify and describe the performance of transport systems and components through the use of analytical methods and modelling techniques.

Programme Learning Outcomes:

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

Knowledge and Understanding

- A1. The role and significance of transport in a modern economy and society.
- A2. The nature and significance of problems and solutions which arise from the demand for movement by people and of goods.
- A3. The concept of sustainability within a global, national and local context and its application to transport planning.

- A4. The policy, political and practical constraints on the conduct of research in a transport context.
- A5. The mechanisms and systems of spatial planning.
- A6. Engineering principles as applied to the design of transport infrastructure .
- A7. The principles of network management.

Intellectual Skills

- B1. Identify problems and to apply appropriate techniques in the investigation of problems, and to deal with complexity and with gaps and contradictions within the knowledge base.
- B2. Plan strategies and tactics in response to unusual and unexpected situations.
- B3. Synthesise information and create and evaluate new approaches in the resolution of complex problems.
- B4. Apply theory to the practical resolution of complex problems.
- B5. Reflect on own educational progress and professional practice.
- B6. Design and implement a research proposal in response to complex problems.
- B7. Apply appropriate quantitative methods to the analysis of complex transport planning or engineering problems.

Subject/Professional Practice Skills

- C1. Design solutions to complex transport planning problems on the basis of analysis and through the application of comparative study.
- C2. Evaluate and justify alternative approaches to transport problems and to accurately assess and report on own/others work.
- C3. Demonstrate an awareness of the ethical dilemmas likely to arise in research and professional practice.
- C4. Apply modelling techniques in the analysis of transport problems.
- C5. Design, develop and write appropriate plans for a range of spatial scales in a range of sectors.

- C6. Use skills of negotiation, mediation, and advocacy in the planning process.
- C7. Design key elements of transport networks, used by different modes.
- C8. Design transport infrastructure.
- C9. Apply GIS to problems of transport design and planning.

Transferable Skills and other attributes

- D1. Engage in a full professional and academic communication with others in the transport and planning fields, and with non-specialist audiences, through presentations and writing.
- D2. Demonstrate authority in study and use of resources and make professional use of others in support of self-directed learning.
- D3. Work effectively as a member of a team.
- D4. Apply computing techniques to the creation of complex databases, to the analysis of data, and the application of quantitative models.

Part B: Programme Structure

Year 1

Full time students must take 180 credits from the modules in Year 1.

Part time students must take 60 credits from the modules in Year 1.

Year 1 Compulsory Modules (Full-time)

Full time students must take 165 credits from the modules in Compulsory Modules.

Module Code	Module Title	Credit
UBGM8P-15-M	Changing Travel Behaviour 2023-24	15
UBGMRK-60-M	Masters Project 2023-24	60
UBGMLK-15-M	Street Network Planning and Design 2023-24	15
UBGLWP-15-M	Sustainable Transport Management and Operations 2023-24	15

UBGM8M-15-M	Transport Economics and Appraisal 2023-24	15
UBGM8N-15-M	Transport Modelling and Scenario Planning 2023-24	15
UBGM61-15-M	Transport Planning and Placemaking 2023-24	15
UBGM8Q-15-M	Transport Policy and Finance 2023-24	15

Year 1 Compulsory Modules (Part-time)

Part-time students must take 45 credits from the modules in Compulsory Modules

Module Code	Module Title	Credit
UBGMLK-15-M	Street Network Planning and Design 2023-24	15
UBGM61-15-M	Transport Planning and Placemaking 2023-24	15
UBGM8Q-15-M	Transport Policy and Finance 2023-24	15

Year 1 Optional Modules (Full Time)

Students choose 15 credits from the following modules:

Module Code	Module Title	Credit
UBGMYN-15-M	Grassroots Planning 2023-24	15
UBGMXN-15-M	Healthy Cities 2023-24	15
UBGMX7-15-M	Urban Design 2023-24	15

Year 1 Optional Modules (Part-time)

The student must take 15 credits from the following modules:

Module Code	Module Title	Credit
UBGMYN-15-M	Grassroots Planning 2023-24	15

UBGMXN-15-M	Healthy Cities 2023-24	15
UBGMX7-15-M	Urban Design 2023-24	15

Year 2

Part-time students must take 120 credits from the modules in Year 2.

Year 2 Compulsory Modules (Part Time)

Part-time students must take 120 credits from the modules in Compulsory Modules.

Module Code	Module Title	Credit
UBGM8P-15-M	Changing Travel Behaviour 2024-25	15
UBGMRK-60-M	Masters Project 2024-25	60
UBGLWP-15-M	Sustainable Transport Management and Operations 2024-25	15
UBGM8M-15-M	Transport Economics and Appraisal 2024-25	15
UBGM8N-15-M	Transport Modelling and Scenario Planning 2024-25	15

Part C: Higher Education Achievement Record (HEAR) Synopsis

Graduates of MSc Transport are able to:

Analyse the complex relationships between transport and society, including the dimension of social justice.

Apply the concept of sustainability to spatial development and transport planning.

Analyse transport systems at an advanced level, drawing on an understanding of demand management and the role of different modes of transport.

Identify and evaluate policy and funding mechanisms in the context of current and

emerging transport issues in the UK, the European Union, and beyond.

Demonstrate the potential to be effective transport planning practitioners.

Part D: External Reference Points and Benchmarks

The MSc Transport programme is, with exception of one 15-credit optional module, the same as the MSc Transport Engineering and Planning award and is designed to meet the requirements of the Transport Planning Professional qualification.

Part E: Regulations

Approved to University Regulations and Procedures.