

COURSE SPECIFICATION

BSc (Hons) Architectural Design Technology

Course Aim and Title	BSc (Hons) Architectural Design Technology
Intermediate Awards Available	BSc, Cert HE, Dip HE.
Teaching Institution(s)	UEL on campus
Alternative Teaching Institutions (for local arrangements see final section of this specification)	N/A
UEL Academic School	Architecture, Computing and Engineering
UCAS Code	K101
Professional Body Accreditation	Chartered Institute of Architectural Technologists (CIAT)
Relevant QAA Benchmark Statements	QAA, Architectural Technology (October 2014)
Additional Versions of this Course	N/A
Date Specification Last Updated	8 May 2019

Course Aims and Learning Outcomes

This course is designed to give you the opportunity to:

Learn about the technology of architecture as a major influence on any design project process, building performance and building construction. Architectural technology professionals are responsible for ensuring that design solutions result in buildings and structures that are constructed economically and perform efficiently and effectively within the context of user needs and environmental, regulatory and budgetary requirements.

This course is designed to give you the opportunity to become conversant with the following four main aspects of architectural technology:

- Design
- Technology
- Management
- Practice

What you will learn:

Knowledge

- Knowledge and understanding of essential facts, concepts, principals and theories relating to Architectural Design Technology.
- The role of and contribution made by different stakeholders within the construction industry.

- The linkages and interdisciplinary relationships between professionals working and operating in the built and natural environments.
- The ability to apply such knowledge and understanding to the solution of qualitative and quantitative problems of a familiar and unfamiliar nature.
- The knowledge and ability to recognise and implement good practice.
- Describe the key concepts, theories and principles used in construction industry. These will include measurement; physical and financial appraisal of buildings; legal principles; applied economics; design factors affecting construction and buildability; the performance of buildings; resource management; document and data handling, and the application of business management theories.

Thinking skills

- Skills in the analysis, synthesis and evaluation of technological information and data, and the ability to develop and design creative and innovative solutions.
- The ability to make informed judgements based on evidence, and being able to question current theories and practice.
- The ability to recognise and analyse problems and plan novel strategies for their solution.
- Evaluate and plan construction activities and undertake the process used to manage and control them.
- Appreciate professional ethics, their impact on the operation of the professions and their influence on the society; conflict avoidance/dispute resolution; communities and the stakeholders with whom they have contact.

Subject-Based Practical skills

- The ability to use information technology (IT) independently to support previously identified cognitive abilities and skills.
- The skills in presenting architectural technology information and arguments clearly and correctly, in writing, drawing, and verbally, to a range of audiences.
- The ability to produce quality architectural presentations through various media, including paper/computer aided design drawings and sketches, schedules, calculations, photography, electronic visualisations, and models.
- Demonstrate the ability to work effectively with others within the context of a multidisciplinary team; respecting inputs from fellow professionals, client(s), and other stakeholders and reflecting on one's own performance and role within the team.

Skills for life and work (general skills)

- Develop a strategy for using the relevant key skill over an extended period of time, and plan how this will be achieved.
- Monitor progress, critically reflect on their performance in using the relevant skill, and adapt their strategy, as necessary, to achieve the quality of outcomes required.
- Evaluate their overall strategy and present the outcomes from their work, including ways of further improving their skills.
- Locate, extract and analyse data from multiple sources, including drawn information.

- Present quantitative and qualitative information, together with analysis, argument and commentary, in a form appropriate to the intended audience, including appropriate acknowledgement and referencing of sources.
- Produce professional reports in accordance with published conventions and/or client expectations, including executive summaries.
- Demonstrate wider research skills to aid in the development of a cumulative element of original work.

Learning and Teaching

Knowledge is developed through

- Guided reading
- Attending lectures / guest presentations
- Knowledge-based activities with feedback
- Online discussions and activities
- preparation for examinations and timed controlled assignments

Thinking skills are developed through

- Reflective activities with feedback
- Tutorial activities and discussions.
- Online discussions and activities
- Preparation of coursework assignments

Practical skills are developed through

- IT activities with feedback
- Research skills-based activities with feedback
- Seminar preparation and presentations
- Applying technical regulations to given scenarios
- Application to real life and simulated case studies

Skills for life and work (general skills) are developed through

- The demands of the study medium
- Planning activities with feedback
- Project and team work
- Using specialist ICT and software

Assessment

In general the assessment takes the form of:

Knowledge is assessed by

- Project work
- Coursework
- Reports
- Examinations
- Individual oral presentations

Thinking skills are assessed by

- Project work

- Coursework
- Time controlled assessments
- Individual oral presentations

Practical skills are assessed by

- Project work
- Practical reports
- Portfolio completion
- Timed controlled assessments

Skills for life and work (general skills) are assessed by

- Project work
- Group work
- Coursework

Students with disabilities and/or particular learning needs should discuss assessments with the Course Leader to ensure they are able to fully engage with all assessment within the course.

Work or Study Placements

We encourage full time students to seek work experience during their academic course, either during the summer vacations, or to take a sandwich year out between level 5 and level 6 of their studies. Those students who successfully opt for the work placement will be enrolled on a 120 credit Work Placement module which will appear in the final transcript as evidence of the work placement year. An employment liaison officer oversees the administration of the year out placements and assists in helping students secure a placement. We are fortunate to have the support of our Industrial Advisory Board (IAB) partners in enabling this important optional element to happen, although this is a competitive process and a placement cannot be guaranteed.

Course Structure

All courses are credit-rated to help you to understand the amount and level of study that is needed.

One credit is equal to 10 hours of directed study time (this includes everything you do e.g. lecture, seminar and private study).

Credits are assigned to one of 5 levels:

- 3: Equivalent in standard to GCE 'A' level and is intended to prepare students for year one of an undergraduate degree course.
- 4: Equivalent in standard to the first year of a full-time undergraduate degree course.
- 5: Equivalent in standard to the second year of a full-time undergraduate degree course.
- 6: Equivalent in standard to the third year of a full-time undergraduate degree course.

7: Equivalent in standard to a Masters degree.

Courses are made up of modules that are each credit weighted.

The module structure of this course:

Level	Module Code	Module Title	Credit Weighting	Core/Option	Available by Distance Learning ? Y/N
4	EG4012	The Built Environment	20	Core	N
4	EG4013	Construction Technology	20	Core	N
4	AR4024	Design Investigation 1	20	Core	N
4	AR4020	Design Integration 1	20	Core	N
4	AR4025	Technical Studies and Representation 1	20	Core	N
4	AR4027	Mental Wealth: Professional Life 1	20	Core	N
5	EG5015	Tendering, Estimating and Cost Control	20	Core	N
5	EG5035	Contract Procedures	20	Core	N
5	AR5020	Design Investigation 2	20	Core	N
5	AR5023	Design Integration 2	20	Core	N
5	AR5026	Technical Studies and Representation 2	20	Core	N
5	AR5027	Mental Wealth: Professional Life 2	20	Core	N
<i>P</i>	<i>EG5023</i>	<i>Work Placement</i>	<i>120P</i>	<i>Option</i>	N

6	EG6012	Project Management	20	Core	N
6	AR6023	Design Investigation 3	20	Core	N
6	AR6024	Design Integration 3	20	Core	N
6	AR6020	Integrated Technology	20	Core	N
6	AR6022	Research in Practice	20	Core	N
6	AR6027	Mental Wealth: Professional Life 3	20	Core	N

Please note: Optional modules might not run every year, the course team will decide on an annual basis which options will be running, based on student demand and academic factors, in order to create the best learning experience.

Additional detail about the course module structure:

The optional level P placement module is required to obtain a sandwich degree, in addition to the other requirements, but does not count towards the degree classification.

A core module for a course is a module which a student must have passed (i.e. been awarded credit) in order to achieve the relevant named award. An optional module for a course is a module selected from a range of modules available on the course.

The overall credit-rating of this course is 360 credits. If for some reason you are unable to achieve this credit you may be entitled to an intermediate award, the level of the award will depend on the amount of credit you have accumulated. You can read the University Student Policies and Regulations on the UEL website.

Course Specific Regulations

N/A

Typical Duration

It is possible to move from full-time to part-time study and vice-versa to accommodate any external factors such as financial constraints or domestic commitments. Many of our students make use of this flexibility and this may impact on the overall duration of their study period.

The expected duration of this course is 3 years full-time (4 years including placement) or 6 years part-time.

A student cannot normally continue to study on a course after 4 years of study in full time mode unless exceptional circumstances apply and extenuation has been granted. The limit for completion of a course in part time mode is 7 years from first enrolment.

Further Information

More information about this course is available from:

- The UEL web site (www.uel.ac.uk)
- The course handbook
- Module study guides
- UEL Manual of General Regulations (available on the UEL website)
- UEL Quality Manual (available on the UEL website)
- School web pages

All UEL courses are subject to thorough course approval procedures before we allow them to commence. We also constantly monitor, review and enhance our courses by listening to student and employer views and the views of external examiners and advisors.

Additional costs: (for UEL on-campus students)

For the 2018/19 academic year additional costs were typically:

Field trip (at levels 4, 5 and 6): £250 - £350 per student per field trip (optional)
Note that cost could be considerably lower if students book ahead of time and/or share accommodation with friends.

The costs of stationery, paper and equipment may be in the region of £150 at Level 4 (mandatory). Print costs will vary depending on the sheet sizes and numbers. This may be minimum £150 per year (mandatory).

Supplementary Unit Fee – Architecture and Design (mandatory)

As you will be using materials for your project models, annual exhibition and the production of the year book, you will need to pay £50 upfront each year to cover for the costs. This will be done via the university Estore system.

Alternative Locations of Delivery

N/A