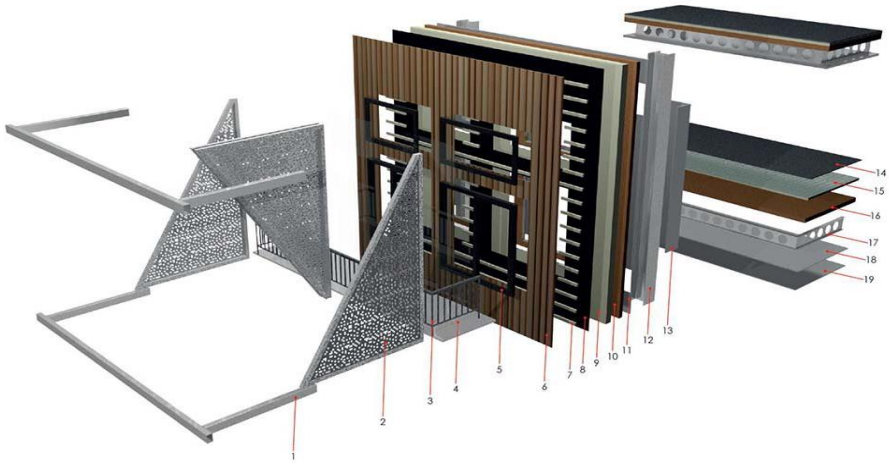
University of Northampton



Architectural Technology

2018-19 Course Introduction

Welcome to BSc Hons Architectural Technology

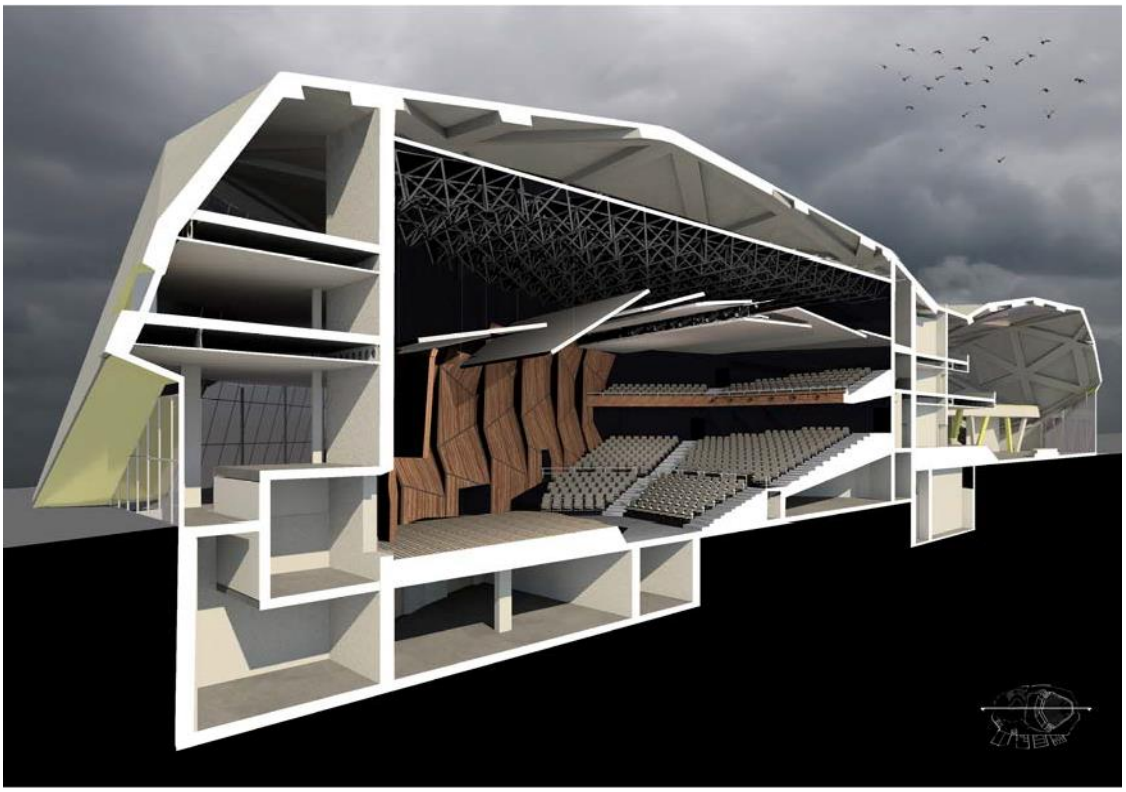
Our welcome week begins on 24 September 2018. During this week you will meet the course team and attend several talks to help you to settle in to your new and exciting environment here at the University of Northampton.

The University of Northampton is situated on the new Waterside campus opposite Becketts Park in Northampton. It is large enough to provide a wide variety of courses and a good range of extracurricular activities to suit most tastes. At the same time it is small enough for every student to feel he or she is a significant member of the University.

We offer a relaxed and friendly atmosphere in which you may study and feel a part of the extended collegiate community. You will be primarily based in the new Creative Hub building on Waterside campus, which is a stones throw from Northampton town center. Facilities open to you include design studios, workshops, lecture rooms, library, computer rooms, and wider facilities such as sports areas and the new Students' Union building *'Platform'* in the heart of the town. BSc Architectural Technology sits within the wider subject area of Design and Photography. Other programmes in this subject area include: BA Graphic Communication, BA Illustration, BA Interior Design, BA Photography and BSC Product Design.

The BSc Architectural Technology programme is focused on developing professional building design and technology skills and an innovative approach to solving three dimensional, environmental, technological and servicing problems across a range of social and commercial contexts. Our Architectural Technology curriculum engages with real local, regional and global issues through which we seek to propose forward thinking, ambitious and innovative solutions.

Our established curriculum is organised around four key themes: Presentation, Technology, Professional Practice and Design. Each theme is continuously thought in all three years covering various subjects with increasing complexity and depth, as the students' progress through their study years. This helps each student to refine their personal interests and aspirations through a range of design challenges that address the needs of very different markets. Typical design projects involve site visits, primary technical contextual research, concept sketching, 2D and 3D computer-aided design, physical model making and presenting to client design teams



The curriculum is supported with additional learning opportunities through study tours, participation in design competitions and exhibitions, practice visits and guest speakers from industry.

The Staff Team

Our friendly tutors have many years' experience in higher education and commercial practice and are engaged in current design practice or research.

This is an essential element to the successful teaching environment at Northampton. Lecturers understand industry needs, have valuable contacts and can contribute insightful knowledge across a wide range of spatial and three dimensional design scenarios. We provide an environment where students can pursue, debate and prioritise issues to create original and rigorous project proposals. Key staff members include:

The Course Team are:

Gordon Cole (interim Programme Leader), Gordon.Cole@northampton.ac.uk

Dr. Riham Ahmed, Riham.Ahmed@northampton.ac.uk

Mark Manning, Mark.Manning@northampton.ac.uk

Lauren Whittaker, Lauren.Whittaker@northampton.ac.uk

Asiya Habib, Asiya.Habib@northampton.ac.uk

Philip Quainoo, Philip.Quainoo@northampton.ac.uk

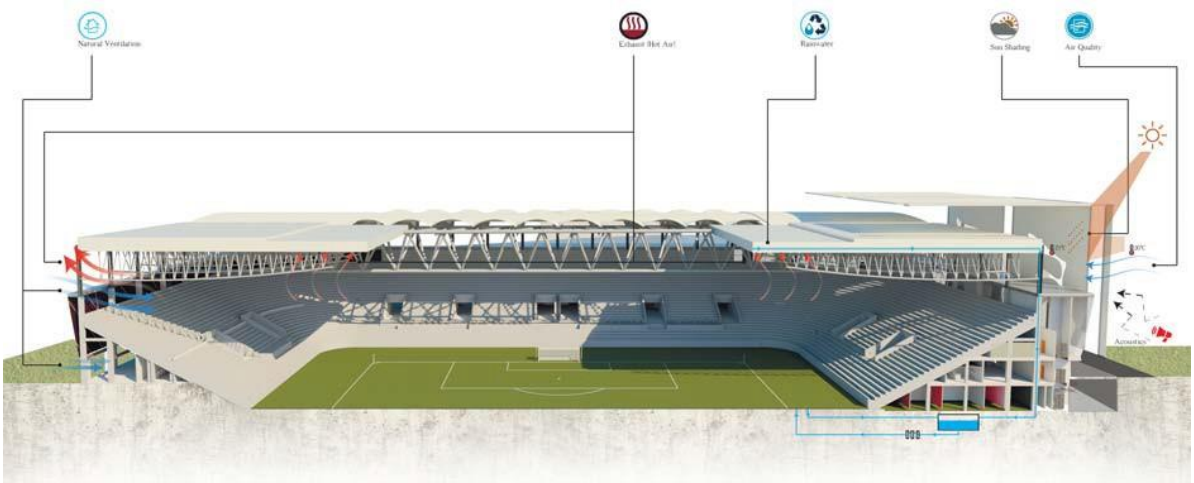
PaulTallon (Technical Demonstrator), Paul.Tallon@northampton.ac.uk

Jason Duggan (Technical Demonstrator), Jason.Duggan@northampton.ac.uk

Jason.Duggan@northampton.ac.uk

Alexis Taylor, Subject Leader Design and Photography, Alexis.Taylor@northampton.ac.uk

Our External Examiner is Dr. Monkiz Khasreen, Senior Lecturer, Southampton Solent University.



Course Structure

The following is a list of modules taught on the programme. Modules consist of design projects, lectures, tutorials, workshop practice and studio design work.

Year 1 (Level 4)

3DD1057: Visual and Technical Communication	*40 credits*	*compulsory*
3DD1058: Architectural Technologist	*20 credits*	*compulsory*
3DD1059: Principles of Technical Design	*40 credits*	*compulsory*
3DD1060: Architectural Design	*20 credits*	*compulsory*

Year 2 (Level 5)

3DD2066: Building Information Management	*20 credits*	*compulsory*
3DD2067: Practice, Regulations and Conventions	*40 credits*	*compulsory*
3DD2068: Design Specification and Production Information	*40 credits*	*compulsory*
3DD2069: Technical Architectural Design	*20 credits*	*compulsory*

Year 3 (Level 6)

3DD3039: Modelling, Simulation and Visualisation	*20 credits*	*compulsory*
3DD3040: Project Management in Architecture	*40 credits*	*compulsory*
3DD4014: Final Major Project	*60 credits*	*compulsory*

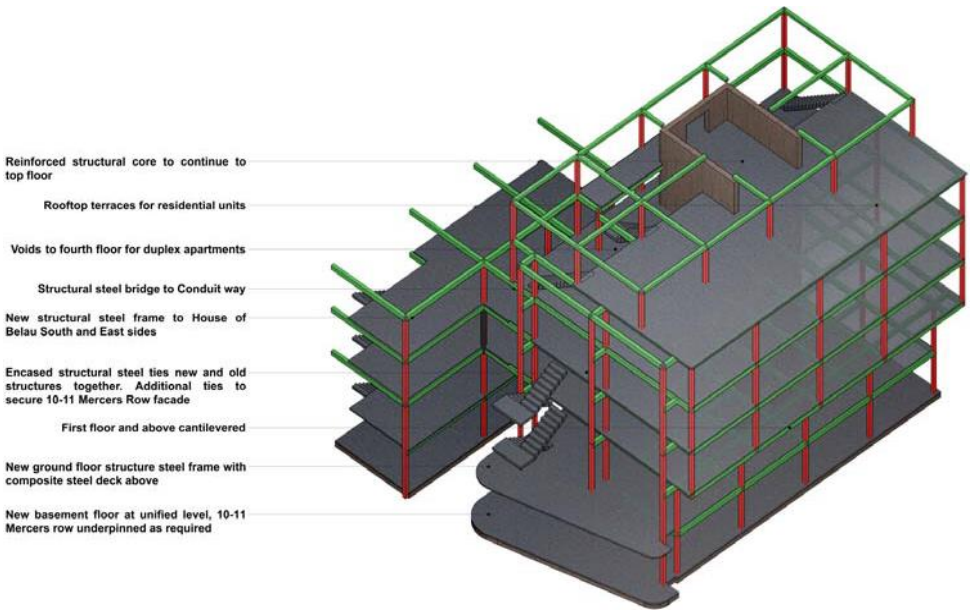
Students studying the BSc (Hons) Architectural Technology including a Foundation Year will be required to study the following modules in year 0 and year 1:

Year **1a**

FDN001: Subject Skills 1: Practical and Study Skills	40 Credits	Compulsory
FDN007: Research for Practice	40 Credits	Compulsory
3DD1057: Visual and Technical Communication	40 Credits	Compulsory

Year 1**b**

FDN004: Subject Skills 2: Working with Ideas	40 Credits	Compulsory
3DD1058: Architectural Technologist	20 Credits	Compulsory
3DD1059: Principles of Technical Design	40 Credits	Compulsory
3DD1060: Architectural Design	20 Credits	Compulsory



Introductory Reading List:

You will be introduced to many books and resources whilst studying on the course. The following is a list of some examples:

Essential subject reading list:

- Adler D. *Metric Hadbook*, 2016
- Cramer, Johannes. *Architecture in existing fabric: planning, design and building*. Birkhäuser. 2007
- McLean, W. & Silver, P. *Introduction to Architectural Technology*, Laurence King, 2008.
- Frank Ching. *Architecture: form, space & order*, 2007
- Bielefeld B. *Basic Architectural Design*, 2013

Highly recommended subject reading list:

- Buxton, Pamela. *Metric Handbook: Planning and Design Data*. Routledge. 2015.
- Ching, F. *Building Construction Illustrated*. 2014
- Davies, Colin. *Thinking about Architecture. An Introduction to architectural Theory.* Laurence King. 2011.
- De Botton, Alain. *The Architecture of Happiness.* Penguin. 2007.
- Ken Yeung, *Reinventing the Skyscraper* , Wiley-Academy 2002.
- Kula, D. *Materiology: The Creative Industry's Guide to Materials and Technologies*, 2011.

- McLean, W. & Silver, *P.Fabrication: the designer's guide*, Architectural Press, 2006
- Riley R, *Construction Technology 1 House Construction,* 2002
- Unwin, Simon. *Analysing Architecture.* Routledge. 2002

What you'll need:

Designers draw. You will therefore need to come prepared with some drawing equipment and materials of your own. We therefore recommend that you bring the following:

Essential drawing equipment

- T Square 60mm
- Adjustable Set Square or set of 45/45 and 30/60 Squares
- Scale Ruler with 1:200/100/50/20/10/5 scales
- Mechanical drawing pencil 0.5/0.3
- Recommended: A2 drawing board with parallel motion

- Graphite sketching pencils
- Colour pencils
- Black marker pen
- Layout paper (A3)
- A sketchbook
- Spray mount adhesive
- Eraser
- Simple compass
- Scissors
- Scalpel
- A3 Portfolio display book
- Pritt stick

During the course you will also be asked to build models and prototypes of your designs. The workshop at the University has a full range of tools however your will find it beneficial if you also own some simple essential equipment. We therefore suggest that you purchase the following toolkit:

- Ruler (stainless steel or aluminium) 60mm
- Craft knife
- Glue gun and glue sticks
- A4 cutting mat
- Masking tape, double-sided tape

A good computer will be an essential part of your studies. Whilst the university has high specification computer labs, to be able to work from home we suggest that you will require a good specification computer. Since the software you will be using are mainly windows based we would also suggest a windows based computer. It is however best, to first start your studies and discuss your computer needs with our technicians who will be able to guide you for the best possible option to buy.

We look forward to seeing you in the next few weeks!

Welcome Week Timetable 2018

	Monday 24th September	Tuesday 25th September	Wednesday 26th September	Thursday 27th September	Friday 28th September
9am – 10am	**Student Union Sessions** FRESHERS: Union Day Market Square, Northampton Town Centre Monday 24-09-2018 10:00 until 16:00	9:30 – 10:30 Programme leader welcome & get to know each other session	9:00 – 12:00 Skills session Waterside Campus LH127		9:00 - 12:00 Social Belonging / Team Building SN301
10am – 11am					
11am – 12am		10:30 -11:00 Expectations session Waterside Campus SN101 (Morley Room)			
12am – 1pm				12:00 - 15:00 Subject Session SN213	
1pm – 2pm					13:00 - 13:30 Q&A Session SN311
2pm – 3pm					
3pm – 4pm					
4pm – 5pm					
5pm – 6pm					