Bio-Integrated Design MArch

Today's built environment is being shaped by revolutions in biotechnology. Bio-integrated Design MArch takes these revolutions as the foundation for developing new, radical design solutions to shape our future built environment.

### Degree summary

This Master's degree combines iterative design experimentation and conceptual work methods with laboratory testing protocols using new modes of production and simulation. Students embrace radically new design agendas that are informed by advances in biotechnology and synthetic biology, material science and computer simulation, applying real biologic growth to the built environment with the aim to create innovative spaces and products that will help shaping life in our future cities.

Bio-integrated Design MArch is a highly-interdisciplinary, design-led programme, which empowers you to discover and innovate with new modes of architectural simulation and production over two years. You will work with world-leading designers and practitioners at The Bartlett School of Architecture, along with scientists and researchers from Biochemical Engineering, Ecology and Life Sciences, to create multi-layered designs which are biologically, materially and socially integrated. There is an urgent need for more sustainable and environmentally conscious design that is creative yet also critical about our future built environment. This programme enables you to gain advanced skills and knowledge of technologies and working methods in an area of growing global significance.

This programme directly responds to contemporary environmental concerns and agendas in the built environment, combining science and design with cutting-edge technology to create prototypes and concepts for a better, greener future. The Bartlett School of Architecture is renowned for preparing students for successful careers and has been ranked as the top architecture school in the UK by the Architects' Journal AJ100 for fifteen consecutive years. The school also enjoys an exceptional international reputation and is currently ranked second in the world by the QS World University Rankings by Subject 2018, above any other institution in Europe. The Department of Biochemical Engineering, is the UK's first and largest department of its kind.

You will learn in a community of diverse, world-leading experts, learning alongside a sister Master's degree with a scientific and analytical focus, Bio-integrated Design MSc. Workshops will be held throughout the year, led by experts from a wide range of fields including art and design, robotics, biotechnology and synthetic biology, material science and bio-chemical engineering. This programme is part of B-Pro or Bartlett Prospective, which groups together five of the architecture school's graduate programmes with a unique philosophy and shared approach to the future of design, architecture and the urban environment. Students studying Bio-integrated Design will participate in The Bartlett's annual B-Pro Show, an exhibition of student work in Bloomsbury attended by the industry and public alike each autumn.

This programme is taught through continuous workshops, seminars and crits. The programme promotes learning via research and enquiry, in particular through iterative design and simulations, prototyping, environmental analysis, along with material studies and laboratory work.

### Assessment

Assessment will be mainly via coursework, but also through on-going evaluation of physical outputs and transferable skills including presentations, criticism, evolving design skills and general teamwork. Your key assessed elements include design portfolios, physical prototyping, laboratory experiments, illustrated essays and reports, and final oral presentation.

### Degree structure

**Mode:** Full-time: 2 years; Flexible: up to 5 years

**Location:** London, Bloomsbury

Full-time students study for 37.5 hours per week during term time. Typically, lectures and seminars occur on two days per week. Flexible students normally attend half this amount.

This is a two-year, 300 credit Master's degree. This programme consists of five modules during year one (180 credits) followed by two modules in year two (120 credits), one of which is a Comprehensive Project Thesis.

Please note that the list of modules given here is indicative. This information is published a long time in advance of enrolment and module content and availability is subject to change.

#### YEAR ONE COMPULSORY MODULES

- Students choose one of two initial design projects, final design projects, thesis reports and theory modules. They also complete a technical skills module.

- Architectural Design Initial Project (45 credits) OR Urban Design Initial Project (45 credits)


- Architectural Design Final Project (75 credits) OR Urban Design Final Project (75 credits)

- Technical Skills (15 credits)

#### YEAR TWO COMPULSORY MODULES

- There are no optional modules for this programme.

- Introduction to the Project Thesis (30 credits)

- Comprehensive Project Thesis (90 credits)

#### RESEARCH PROJECT/REPORT

- All students undertake an independent Comprehensive Project Thesis which culminates in a dissertation of 15,000 words (90 credits).

There is one field trip (optional) annually as part of the programme. Maximum cost to the student is £500.

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Your career

The Bartlett School of Architecture is recognised as one of the world’s leading schools of architecture and graduates from our Master’s programmes are highly sought after.

Employability

The programme has been structured to empower students to develop specialist skills and a unique design vision that merges expertise in design, biology and engineering.

You will be prepared for a broad scope of jobs in teams of artists, designers, architects or engineers and especially equipped to join companies and organisations with a focus on experimental and advanced design, computation and bio or environmental integration.

You will also be prepared to pursue research either in academia, such as PhD programmes or laboratories, or industry in integrated Research and Development groups that develop innovative products or work for the built environment.
Entry requirements

A minimum of a second-class UK degree in an appropriate subject or an overseas qualification of an equivalent standard. A design/creative portfolio is also expected. Applicants will be asked to submit a portfolio of their design work along with a short piece of writing once their completed application has been received, and should not send or upload work until it has been requested.

English language proficiency level

If your education has not been conducted in the English language, you will be expected to demonstrate evidence of an adequate level of English proficiency.

The level of English language proficiency for this programme is: Standard.

Information about the evidence required, acceptable qualifications and test providers is provided at:
www.ucl.ac.uk/graduate/english-requirements

Your application

- why you want to study Bio-Integrated Design at graduate level
- why you want to study Bio-Integrated Design at UCL
- what particularly attracts you to this programme
- how your academic background meets the demands of this challenging programme
- where you would like to go professionally with your degree

There is an application processing fee for this programme of £75 for online applications and £100 for paper applications. Further information can be found at:
www.ucl.ac.uk/prospective-students/graduate/taught/application.

FEES AND FUNDING 2019/20 ENTRY

UK: £13,750 (FT)
EU: £13,750 (FT)
Overseas: £28,410 (FT)

Full-time students undertake 180 credits in Year 1 and 120 credits in Year 2. As such, the fee in Year 1 will be £13,750 (UK/EU) / £28,410 (Overseas) but the fee in Year 2 will be approximately two-thirds of the Year 1 fee (subject to UCL’s annual fee increase). For modular/flexible students, the full-time fee indicated will be pro-rated based on module selection. Further information on fee status, fee increases and the fee schedule can be viewed on the UCL Current Students website.

Full details of funding opportunities can be found on the UCL Scholarships website: www.ucl.ac.uk/scholarships

APPLICATION DEADLINE

All applicants: 26 July 2019

Details on how to apply are available on the website at:
www.ucl.ac.uk/graduate/apply

CONTACT

Mrs Thea Heintz, Senior Teaching & Learning Officer (MA/MArch/MLA)
Email: t.heintz@ucl.ac.uk
Telephone: +44 (0)20 3108 9638

EU referendum

For up-to-date information relating to specific key questions following the UK’s decision to leave the EU, please refer to www.ucl.ac.uk brexit