



# Master's of Public Administration

2019-20 entry

# HOW WILL YOU CHANGE THE WORLD?

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**Is nuclear energy the key to mitigating climate change?**

**How much can or should we regulate the internet?**

**How will smart cities shape our future?**

**Does technological innovation reduce or increase global inequality?**

**What are the best mechanisms for governments to support digital innovation?**

Some of today's most controversial questions are also the ones that could provide the opportunity to change our world for the better.

Innovations in science, technology and engineering (STE) are almost always central to grappling with these complex global challenges. As a result, decision makers in the public and private sectors must work together with scientists and engineers to make a change. Our Master's of Public Administration (MPA) degrees provide practical skills, tools and knowledge for those working at the interface between STE and public policy. The degree is designed for decision makers and policy professionals in public, private or third sector, as well as those from a science or engineering background who wish to engage with policy.

*University College London was founded in 1826, and is located in the heart of the capital.*



# ABOUT THE PROGRAMME

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The Department of Science, Technology, Engineering and Public Policy (UCL STEaPP) offers five one-year MPA degrees, focused on the following policy areas:

- Science, Engineering and Public Policy
- Digital Technologies and Policy
- Urban Innovation and Policy
- Energy, Technology and Climate Policy
- Development, Technology and Innovation Policy

## Which MPA degree is right for me?

Whichever aspect of policy you want to focus on, our flexible MPA degrees provide the opportunity to tailor your Master's experience. All five MPA degrees share a number of core modules. These develop your

understanding of key policy models, tools and frameworks.

The majority of core learning occurs in Term 1. Students then focus on their chosen policy areas through a combination of core, elective and specialist modules in Term 2. The programme culminates in an extended policy project with a real client, which takes the place of a final dissertation in Term 3.

UCL STEaPP offers a range of focused MPA degrees, but if you would like to take a broader, less topical approach, we recommend that you consider our MPA in Science, Engineering and Public Policy. This degree provides an increased number of elective options for more flexibility, allowing you to focus on several areas of policy.

## SCIENCE, ENGINEERING AND PUBLIC POLICY

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Our most flexible MPA degree is suited to applicants who would like to explore several different policy areas. The degree shares core modules with STEaPP's specialised MPA degrees (see overleaf), while also allowing students to choose three optional and elective modules from across STEaPP and UCL's other world-class departments. This provides graduates with a foundation in policy tools and frameworks and tailored experience in the policy areas that suit their interests.

See the degree outline on pages 6–7 for more details.



**Led by**  
**Carla-Leanne**  
**Washbourne**

*Lecturer in Environmental  
Science and Policy and  
MPA Coordinator*

## DIGITAL TECHNOLOGIES AND POLICY

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This degree prepares future decision makers and technologists working with policy to meet the challenges and opportunities presented by today's fast-evolving digital technologies. Graduates are equipped to develop strategies, policies and guidelines and collaborate with a range of stakeholders across the public and private sectors working with digital technology. Content covered:

- The digital economy
- Policy making in the information age
- Cyber security
- Online human rights and the Internet of Things



**Led by  
Madeline Carr**  
*Associate Professor of  
International Relations  
and Cyber Security*

## URBAN INNOVATION AND POLICY

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Become a future innovator in urban development and city leadership. This degree provides graduates with the skills to collaborate with a broad range of urban stakeholders; analyse and set policy; innovate in the face of complex systems; and enable sustainable urban planning. Content covered:

- Contemporary urban challenges
- Principles of urban innovation
- Disciplinary lenses for understanding the city
- Methods for delivering urban policy



**Led by  
Ellie Cosgrave**  
*Lecturer in Urban  
Innovation and Director  
of UCL STEaPP's City  
Leadership Laboratory*

## ENERGY, TECHNOLOGY AND CLIMATE POLICY

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This degree explores sustainable approaches to addressing global challenges, from mitigating climate change to developing accessible and renewable energy. Graduates develop an in-depth understanding of complexities around energy and climate policy and the tools available to collaborate on creative and inclusive policy solutions. Content covered:

- Sustainability and innovation
- Technology for renewable energy
- Carbon dioxide capture and storage
- Scientific advice on energy and climate policy



**Led by**  
**Arthur C Petersen**

*Professor of Science,  
Technology and  
Public Policy*

## DEVELOPMENT, TECHNOLOGY AND INNOVATION POLICY

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This degree focuses on how policy can respond to the need for balanced growth, social wellbeing and environmental protection in developing countries. The MPA draws on global, regional and local examples in sectors such as agriculture, energy and environment. Content covered:

- Inclusive transformation and smart infrastructure
- Regulation and finance for innovation
- Technological opportunities and risks
- Institution building and capacity development



**Led by**  
**Yacob Mulugetta**

*Professor of Energy  
and Development Policy*

# DEGREE STRUCTURE

## TERM 1

### Introduction to Science, Engineering and Public Policy (60 credits)

- Core introductory module, taken by all MPA students. This module provides a specialist introduction to science, technology, engineering and public policy, and introduces key themes, concepts, skills and frameworks.
- Specific material for each MPA degree, including one dedicated day per week of specialist content.
- External visits, guest lectures/seminars with experts.

### Knowledge and Governance

- Tools and processes governments use to understand how the world works, i.e. 'How does government know?'
- Main challenges of generating and using STEM knowledge in policy making and public management
- Governance of processes and actors, within the context of the governance of national policy and socio-technical systems
- Interactive lectures, discussions, role-play and experiential approaches to learning

### Evidence for decision-making

- Evidence and analysis for decision-making
- Quantitative analysis of socio-technical systems
- Qualitative and mixed method analysis of socio-technical systems
- Modelling of socio-technical systems
- Integrating different types of knowledge to support (public) decision making

### Public administration

- Tools and processes that public administrations employ when managing and implementing policies
- Reflect on main challenges of responding to complex issues, coupled crises and uncertainties
- Administrative capacity of governments and policy networks to effectively, efficiently respond to challenges.
- Uses problem-based and reflective learning, including flipped classroom.

### Policy entrepreneurship

- Steps and tools for practical policy analysis
- Writing and presenting policy analyses
- Introduction to analytic methods and frameworks

### Scenario week (real-world case project)

- Applying tools, methods and skills gained during the first term and applying them in an experiential simulated situation.
- Working, presenting and networking with experts

## TERM 2

### Analytical Methods for Policy

- Cover the diverse landscape of a practice, and develop literacy over
- Develop competency over a range of methods
- Equip MPA students to be 'intelligent external analytic products
- Provide pragmatic guidance, and can be used to develop further a

### Route Specialist Module (15 credits)

*During Term 2, each MPA degree route further explores the topical themes and speciality;*

- Energy, Technology and Climate Policy
- Development, Technology and Innovation
- Digital Technologies and Policy
- Urban Innovation and Policy

*\*MPA Science, Engineering and Public Policy or STEaPP general elective.*

### UCL STEaPP Elective (15 credits)

All MPA students select at least one elective by STEaPP in any given year, these may be specialist modules (if not already required).

- Clean Energy and Development
- Communicating Science for Policy
- Negotiation and Diplomacy
- Risk Assessment and Governance
- Science, Technology and Engineering
- Science, Research and Innovation
- Energy, Technology and Climate Policy
- Development, Technology and Innovation
- Digital Technologies and Policy
- Urban Innovation and Policy

### UCL/STEaPP Elective (15 credits)

Students may select a further module from another UCL Department. This module is subject to preference, special interest or deeper specialisation.

### Policy (15 credits)

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social and computation skills that  
analytic competencies

### 5 credits)\*

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selective module from those provided  
may also include other MPA route  
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in Policy  
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### redits)

from UCL STEaPP or one provided by  
may be selected for personal  
study of a related topic.

## TERM 3

### Ethics, Institutions and Power (15 credits)

- This module explores the topics and themes on the nature and behaviour of knowledge
- Major debates on the relationship between science, technology and engineering and the remit of politics and policy
- Inspire innovative and creative challenges to conventional ideas, push boundaries and pioneer original and bold approaches to create change, in both research and practice
- Delivered as an intensive set of research seminars and workshops

### MPA Group Project (45 credits)

The MPA Group Project is a major experiential component of the programme, enabling students to work as a group on a real-world policy challenge, alongside an external partner organisation, with the additional support of UCL STEaPP faculty.

The MPA Groups will work with the partner to understand the challenge, to develop a work plan that includes problem definition and framing, explore and assess options relevant to the problem context and, ultimately, deliver a final set of products that meet the partner's needs and expectations.

There are a number of deliverables and feedback points (including peer assessment) that are required throughout Term 2 and Term 3, which culminate in a final presentation and report due at the end of the academic year (September). As such, students are expected to remain in London throughout the summer to work on their projects.

Skills applied:

- Scope, negotiate and develop agreed and deliverable terms of reference
- Team management and communication
- Managing client relations and stakeholder expectations
- Negotiation, diplomacy and communication
- Conducting research over a large area and focus
- Selecting appropriate and relevant analytic methods
- Applying methods, skills, knowledge and frameworks acquired throughout MPA study
- Applying adaptive policy design methods, including and evaluation of policy interventions
- Shaping solutions
- Presenting to clients, knowledgeable professionals and UCL STEaPP Faculty

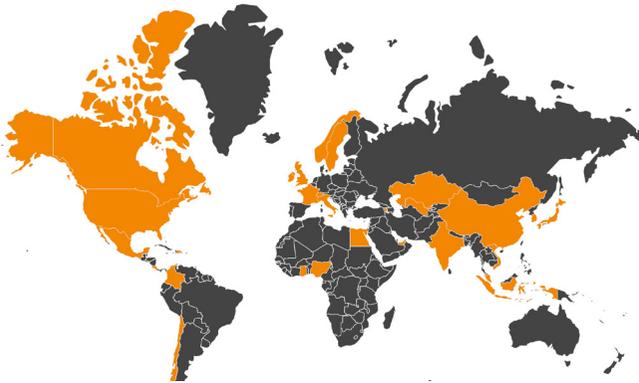
# WHY STUDY AT UCL STEaPP?

- Study in the heart of London, a global hub for industry and policy leaders.
- Connect with UCL's international network of teachers, practitioners and researchers.
- Apply your knowledge to projects with real clients and real-world cases.
- Benefit from your own personal tutor with specialist subject knowledge.
- Join an alumni community with global networking opportunities.
- Collaborate with professional peers from a range of backgrounds to gain different perspectives.
- Receive rigorous training in practical skills, analytical methods and conceptual tools.
- Focus on global, cross-cutting topics.
- Attend departmental seminars with policy experts and take part in an optional week-long intensive leadership course.

**Find out more:**  
[www.ucl.ac.uk/steapp](http://www.ucl.ac.uk/steapp)

## OUR STUDENTS

Meet our international MPA alumni community:



### NATIONALITY

Armenia, Austria, Canada, Chile, China, Colombia, Costa Rica, Dominican Republic, Egypt, France, Ghana, India, Indonesia, Ireland, Italy, Japan, Kazakhstan, Malaysian, Mexico, Nigeria, Norway, Singapore, South Korea, Sweden, United Arab Emirates, United Kingdom, United States, Uzbekistan, Vietnam

### AGE RANGE



### GENDER



## FUTURE CAREERS

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Our MPA degrees create future leaders for the public, private and third sectors.

The curriculum is designed to enhance the skillset of professionals working with policy in a wide variety of organisations, including national and local government, non-governmental organisations (NGOs), international bilateral and multilateral aid donors and the private sector. Ambitious graduates could progress to become scientific advisors, social entrepreneurs, senior policy advisors in think-tanks or NGOs and senior-level or local government officials.

**“ The training I’ve got on this course will really help me act as a better bridge between scientists and policy officers. ”**



**Wee Ng**  
**(MPA Graduate)**  
Singapore Civil Service

## REGISTER YOUR INTEREST

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To find out about scholarship opportunities, alumni stories and more, sign up to our mailing list:  
**[www.ucl.ac.uk/steapp/study/masters/register](http://www.ucl.ac.uk/steapp/study/masters/register)**



*MPA students visited Dubai to attend the World Government Summit 2017.*

# OUR DEPARTMENT

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The Department of Science, Technology, Engineering and Public Policy at UCL explores how scientific and engineering expertise can meaningfully engage with public decision-making and policy processes to tackle pressing global issues and improve public wellbeing.

UCL STEaPP is a uniquely policy-oriented department which sits across three world-class UCL faculties: Engineering, the Bartlett Faculty of the Built Environment, and Mathematical and Physical Sciences.

**Find out more about our education, research and policy activities:**  
[www.ucl.ac.uk/steapp](http://www.ucl.ac.uk/steapp)



**“ If you’re looking to learn from a diverse range of people with even more diverse experiences and expertise, whilst finding collaborative solutions to problems, this is the programme for you. ”**

**Angel Yiangou (MPA Graduate)**



**“ The interdisciplinary cohort of scholars enriches the class dialogue and discussion. ”**

**Diego Pedraza Segura (MPA Graduate)**



**“ The most exciting part of the MPA is being able to understand how technical skills and solutions fit into government dynamics, and how public and private efforts can smartly boost industrial sectors. ”**

**Patricio Barrera Valdez (MPA Graduate)**





# UCL

## Entry requirements

- Upper second-class Bachelor's degree from a UK university in a relevant discipline, or a 3.5 GPA, or an overseas qualification of an equivalent standard
- Good level of English language proficiency. (Overall grade of 7.0 with a minimum of 6.5 in each of the subtests. Visit our website for details on acceptable English language qualifications)
- Work experience is beneficial, but not essential

## Next steps

Visit our website to find out about:

- Scholarships
- Fees
- How to apply

[www.ucl.ac.uk/steapp/study/masters](http://www.ucl.ac.uk/steapp/study/masters)

UCL Department of Science, Technology, Engineering and Public Policy (UCL STEaPP)

T: +44 (0)20 3108 9425 | E: [steapp.admissions@ucl.ac.uk](mailto:steapp.admissions@ucl.ac.uk)

[www.ucl.ac.uk/steapp](http://www.ucl.ac.uk/steapp) | Twitter: @UCLSTEaPP | LinkedIn: ucl-steapp