TELECOMMUNICATIONS MSc
/ 2018/19 ENTRY

www.ucl.ac.uk/graduate/eleceng
The world of telecommunications is one of the fastest developing in the areas of science and technology. The Telecommunications MSc at UCL covers various aspects of modern telecommunication systems together with the background necessary to understand such systems, and is continuously updated to reflect the rapid changes in the field.

**Degree summary**

Students develop a comprehensive understanding of the key technologies, network architectures, and systems that make up a modern, telecommunications network. Specific topics include telecommunications systems, communications technologies, network design and planning, data networks and architectures, next generation architecture and business aspects of telecommunications.

// UCL Electronic & Electrical Engineering is one of the most highly rated electronic engineering departments in the UK. Our research and teaching ethos is based on understanding the fundamentals and working at the forefront of technology development.

// This MSc programme is taught by UCL’s telecommunications experts with contributions from industrial and government specialists, and is dedicated to the task of training engineers and managers in the telecommunications industry.

The programme is delivered through a combination of formal lectures, laboratory and workshop sessions, seminars, tutorials and project work. All of the programme lecturers carry out leading research in the subjects they are teaching. Student performance is assessed through unseen written examination, coursework, design exercises and the dissertation.

**Accreditation**

Accredited by the Institution of Engineering and Technology (IET) on behalf of the Engineering Council as meeting the requirements for Further Learning for registration as a Chartered Engineer. Candidates must hold a CEng accredited BEng/BSc (Hons) undergraduate first degree to comply with full CEng registration requirements.

**Degree structure**

Mode: Full-time: 1 year; Flexible: 3-5 years
Location: London, Bloomsbury

Students undertake modules to the value of 180 credits. The programme consists of five core modules (75 credits), three optional modules (45 credits) and a research dissertation (60 credits).

An exit-level Postgraduate Diploma (120 credits) is offered.
An exit-level Postgraduate Certificate (60 credits) is offered.

**CORE MODULES**
- Introduction to Telecommunications Networks
- Mobile Communications Systems
- Software for Network and Services Design
- Telecommunications Business Environment
- Introduction to IP Networks
- Professional Development Module: Transferable Skills (not credit bearing)

**OPTIONAL MODULES**
- Students choose three of the following:
  - Broadband Technologies and Components
  - Communications Systems Modelling
  - Internet of Things
  - Optical Transmission Networks
  - Network and Services Management
  - Internet Multimedia Systems
  - Wireless Communications Principles

**DISSERTATION/REPORT**
- All students undertake an independent research project which culminates in a dissertation of approximately 12,000 words.
Your career

On completion of this programme students pursue careers as network or telecommunications engineers, consultants or systems architects in networking technologies.

Recent career destinations* include:

- ITSM (IT Service Management) Manager, Telefonica
- Network Consultant, ECCOM Network System
- Network Verification Engineer, Nokia
- Telecommunication Systems Manager, SSI (Space Systems International) Monaco
- Telecommunications Engineer, Banco de Mexico (Bank of Mexico)

Employability

The Telecommunications MSc programme provides a broad and comprehensive coverage of the technological and scientific foundations of telecommunications networks and services, from the physical layer to the application layer. A strong emphasis is given to mobile and wireless communications and the latest standards in these areas (LTE, WiMAX, IEEE 802 family of standards, etc.). Students study both the theoretical foundations of all related technologies but also carry out extensive practical assignments in several related areas.
Entry requirements

A minimum of an upper second-class Bachelor’s degree in a relevant discipline from a UK university or an overseas qualification of an equivalent standard.

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

Students are advised to apply as early as possible due to competition for places. Those applying for scholarship funding (particularly overseas applicants) should take note of application deadlines.

When we assess your application we would like to learn:

// why you want to study Telecommunications at graduate level
// why you want to study Telecommunications at UCL
// what particularly attracts you to this programme
// how your academic and professional background meets the demands of this programme
// how you envisage your career path after the MSc.

Together with essential academic requirements, the personal statement is your opportunity to illustrate whether your reasons for applying to this programme match what the programme will deliver.

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

FEES AND FUNDING 2018/19 ENTRY

// UK: £12,380 (FT), £N/A (PT)
// EU: £12,380 (FT), £N/A (PT)
// Overseas: £25,350 (FT), £N/A (PT)

The tuition fees shown are for the year indicated above. Fees for subsequent years may increase or otherwise vary. Further information on fee status, fee increases and the fee schedule can be viewed on the UCL Current Students website.

Fees for flexible, modular study are charged pro-rata to the appropriate full-time Master’s fee taken in an academic session.

The Institution of Engineering and Technology (IET) awards competitive scholarships for postgraduate study, for details visit www.theiet.org

Please visit the UCL Electronic and Electrical Engineering Scholarships website for more information on funding.

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

APPLICATION DEADLINE

All applicants: 27 July 2018

Details on how to apply are available on the website at:

www.ucl.ac.uk/graduate/apply

CONTACT

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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/eu-referendum