This MSc Drug Design offers a comprehensive guide to all aspects of modern day drug design. It is taught by research scientists, clinicians and industry experts. Our graduates have progressed to undertake or obtain PhDs or medical studentships, or have found employment in both the private and public sector.

**Degree Summary**

The programme covers all aspects of drug design, including genomics, bioinformatics, structural biology, cheminformatics, molecular modelling and fragment-based drug design, drug target selection, intellectual property and marketing. New therapies such as antibodies, siRNA, stem cells and high throughput screening are covered. Students will develop essential skills such as research methods and techniques of drug design.

**Structure**

MSc (180 credits) 8 core modules and a min of 3 months research project. MRes (180 credits) 3 core modules, 2 translational modules and a min of 6 months research project. Research project Wet lab and computational projects from UCL expert groups or external companies.

**Core Modules (15 credits each)**

- Bioinformatics and Structural Biology
- Target Identification and High Throughput Screening
- Cheminformatics and Computer Drug Design
- Biological Molecules as Therapeutics – Antibodies, siRNA, and Stem Cells
- Biophysical Screening Methods, Protein NMR and Phenotypic Screening
- Fragment Based Drug Design (FBDD)
- Target Selection – Scientific Grounds, CRISPR, GWAS
- Target Selection – Commercial and Intellectual Property

A Postgraduate Diploma consisting of 8 core modules (120 credits) and a Postgraduate Certificate of 4 core modules (60 credits) are offered.

**Modes and duration**

**Full time:** 1 year  
**Flexible:** Up to 5 years. Distance learning.

**Entry Requirements**

Minimum 2:2 undergraduate degree in a relevant discipline from a UK university or an overseas qualification of equivalent standard or appropriate professional work experience.

**Contact**

Dr Edith Chan, Programme Director  
Phone: +44 207 679 6710  
Email: edith.chan@ucl.ac.uk