COURSE DETAIL

ENERGY AND FUTURE CITIES: INNOVATING LONDON'S ARCHITECTURE

Country
United Kingdom - England

Host Institution
University College London

Program(s)
Summer at University College London

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Urban Studies Environmental Studies

UCEAP Course Number
105

UCEAP Course Suffix
S

UCEAP Official Title
ENERGY AND FUTURE CITIES: INNOVATING LONDON'S ARCHITECTURE

UCEAP Transcript Title
ENERGY&FUTUR CITIES

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

Depletion of traditional fuel stores has been accompanied by increasing pollution levels. Consequently, motivations to lower carbon-emissions have elevated. To ensure change is achieved on a global scale a multinational agreement was confirmed in 2015 at the Paris climate conference whereby 195 countries agreed a legally binding global climate deal, the first of its kind. Advancements in the field of electrochemical engineering and the infrastructure that will subsequently facilitate such changes are essential in order to reduce dependencies upon traditional carbon-intensive technologies. For instance, battery technology for use in automotive applications will require a robust charging network in order to prevent energy shortages and power blackouts. This course provides insight into each stage of this process, from the chemistry and manufacture of new materials to the organization of the grid and the redesigning of our metropolitan infrastructure.

Language(s) of Instruction
English

Host Institution Course Number
ISSU0075

Host Institution Course Title
ENERGY AND FUTURE CITIES: INNOVATING LONDON'S ARCHITECTURE

Host Institution Campus
Bloomsbury

Host Institution Faculty

Host Institution Degree
Bachelors

Host Institution Department
Department of Chemical Engineering/ Bartlett School of Planning

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