LSE Department of
Health Policy

Executive MSc Healthcare Decision-Making

In collaboration with the National Institute for Health and Care Excellence

lse.ac.uk/NICE-exec-MSc

NICE
National Institute
for Health and
Care Excellence

Develop Critical Skills in Healthcare Strategic Decision-Making and Leadership

The Executive MSc in Healthcare Decision-Making is a unique programme that equips you with a well-rounded intellectual and practical grounding in essential skills to appraise health care interventions, products, and policies, and contribute to evidence-based decision-making.

The two-year programme has been developed in collaboration with the **National Institute for Health and Care Excellence (NICE)**, known internationally for its contribution to the quality and efficiency of health care and for the scientific rigour of its approach. This approach combined with the academic excellence of LSE's faculty has led to a truly exceptional programme, with a tailored offering of skill-oriented and policy-based courses that will enable a strategic view of healthcare systems required to transition into a senior leadership role.

Considering extensive reforms taking place in the way health systems operate, understanding the complexities of healthcare markets, how to navigate these, and how to make informed decisions about resource allocation are increasingly important for active participation in strategic decision-making across the health sector.

Addressing a need for qualified experts across the international healthcare market, the programme is tailored to participants coming from the pharmaceutical and medical technology industries, medical professionals, health insurance, healthcare management, governmental and non-governmental organisations, and individuals looking to transition into leadership roles.

75% LSE
25% NICE

Teaching

2 years

8 courses

4 teaching blocks at LSE

> The combination of LSE's world-leading teaching and research excellence and NICE's standing as a national authority and global leader in health technology assessment and guidance offers an unparalleled degree of rigour and professional relevance.

Professor Elias Mossialos
LSE Department of Health Policy

> " NICE has 20 years' experience in evidence-based health care decision-making, and we are delighted to be able to partner with LSE in order to share this expertise amongst professionals who are looking to enhance their skills in this area. "

Jeanette Kusel
Director for NICE Scientific Advice

For health leaders

You will be taught a balanced mix of courses that are unique to this programme; the programme will equip you with a crucial skill set that will enable you to have a strategic view of healthcare systems and transition you into a senior leadership role.

Over two years, the courses will be delivered in four intensive two-week teaching blocks at the London School of Economics and Political Science. This schedule allows participants to complete the degree alongside full-time work.

You will obtain a critical appreciation of:

> the complexities of healthcare regulations and governance.

> how policy decisions impact health systems.

> the nuances of value assessment models and why value assessment results in differences in coverage across settings.

> the impacts of healthcare interventions on core health policy objectives, by applying analytical methods in economic evaluation.

> how pharmaceutical markets operate, and how intellectual property links up with regulatory practices and pricing and coverage decisions.

As a health leader, you will utilise these skills to make informed evidence-based decisions that make a difference.

> "There is an increased and urgent need for highly qualified and technically competent expertise in the international health care market. The LSE-NICE MSc offers a unique opportunity to develop a well-rounded grounding in advanced skills to evaluate health care interventions and outcomes."

Dr Panos Kanavos
Associate Professor
LSE Department of Health Policy

> 66 This programme attracts some of the most talented professionals in the health sector and provides the skills needed to advance careers and shape the future leaders in health. 99

Dr Rocco Friebel
Assistant Professor
LSE Department of Health Policy

Programme calendar

YEAR 1

Teaching Block 1

> Principles of Health Technology Assessment

> Impact Evaluation in Health Care

Teaching Block 2

> Health Care Regulation

> Economic Modelling for Health Care Decision-Making

YEAR 2

Teaching Block 3

> Economics of the Pharmaceutical Sector

> Systematic Review and Meta-Analysis

Teaching Block 4

> Critical Appraisals of Clinical Trials and Real-World Evidence in Decision-Making

> Statistical Methods in Health Care Economic Evaluation

Courses

TEACHING BLOCK 1

Principles of Health Technology Assessment

This course introduces the key principles of Health Technology Assessment, its operational modalities, the different prevailing systems, the different models of value assessment and how they link to decision-making and coverage. The course analyses value frameworks and their impact on decision-making and considers different funding modalities and risk mitigation strategies that may facilitate coverage decisions. Finally, it introduces students to alternative approaches to HTA, such as multiple criteria decision analysis.

Impact Evaluation in Health Care

Gain an in-depth overview of the key principles and models used to evaluate health care interventions, programmes, and policies. Students will be introduced to experimental, quasi-experimental, non-experimental, and qualitative designs for evaluating health care interventions, programmes, and policies aimed at achieving high quality care, reducing costs, and improving health outcomes.

TEACHING BLOCK 2

Health Care Regulation

Health care systems are complex organisational structures governed by an ambition to provide high-quality health care services to its population. In this context, governance describes a framework through which individual stakeholders are being held accountable to improving the quality of services and safe-guarding high standards of care. In turn, this framework ensures a consistent evaluation and regulation of care processes and is crucial for the efficient functioning of health care systems around the world.

Economic Modelling for Health Care Decision-Making

This course will enable students to understand and apply analytic methods in the economic evaluation of health interventions and provide a strong foundation in the several advanced concepts in economic evaluation, and in particular cost-effectiveness of interventions used in long-term chronic illnesses. Practical topics will include the design and implementation of economic evaluation models and the role of clinical data inputs to inform economic evaluation analyses.

Courses

TEACHING BLOCK 3

Economics of the Pharmaceutical Sector

This course will introduce students to the key concepts and principles related to the economics of the pharmaceutical sector, including intellectual property rights protection, R&D models, licensing of new medicines, pricing strategies and reimbursement models. It will equip students with a skill set that would enable them to understand how new medicines come to market and what the underpinning levers are for their introduction into health care systems and reimbursement lists. It will also expose students to key aspects of global pharmaceutical policy.

Systematic Review and Meta-Analysis

This course will equip students with the key principles of evidence review and synthesis required to interpret existing evidence to evaluate health care interventions. A broad range of decision-making bodies across the health care sector need experts equipped with skills to review and synthesize the existing body of evidence. The course will provide the rationale for adopting a systematic approach for evidence review and synthesis and equip students with the methods to undertake risk of bias assessments of individual randomised controlled trials and collections of randomised controlled trials.

Please note that course regulations may change. For the most up-to-date list of courses, please visit
lse.ac.uk/NICE-exec-MSc

TEACHING BLOCK 4

Critical Appraisals of Clinical Trials and Real-World Evidence in Decision-Making

This course will provide students with practical skills in key areas such as understanding the different types of clinical trials, understanding the principles of real-world data (RWD) studies and examining the efficacy, safety and health-related quality of life of health care interventions. It will also equip students with interpreting research results and conclusions, reading and understanding published journal articles or pharmaceutical company reports and familiarity with systematic reviews.

Statistical Methods in Health Care Economic Evaluation

This course develops the statistical and modelling techniques necessary to apply economic evaluation to the health care sector. It will cover the following topics: introduction to statistical methods; linear regression analysis; logistic regression analysis; survival analysis for health outcomes; survival analysis for treatment costs, economic evaluation, and clinical trials; estimation of confidence intervals for cost-effectiveness ratios; transformation of ratios - net benefit approach; missing data, parametric and non-parametric approaches; and presentation of analysis, acceptability curves.
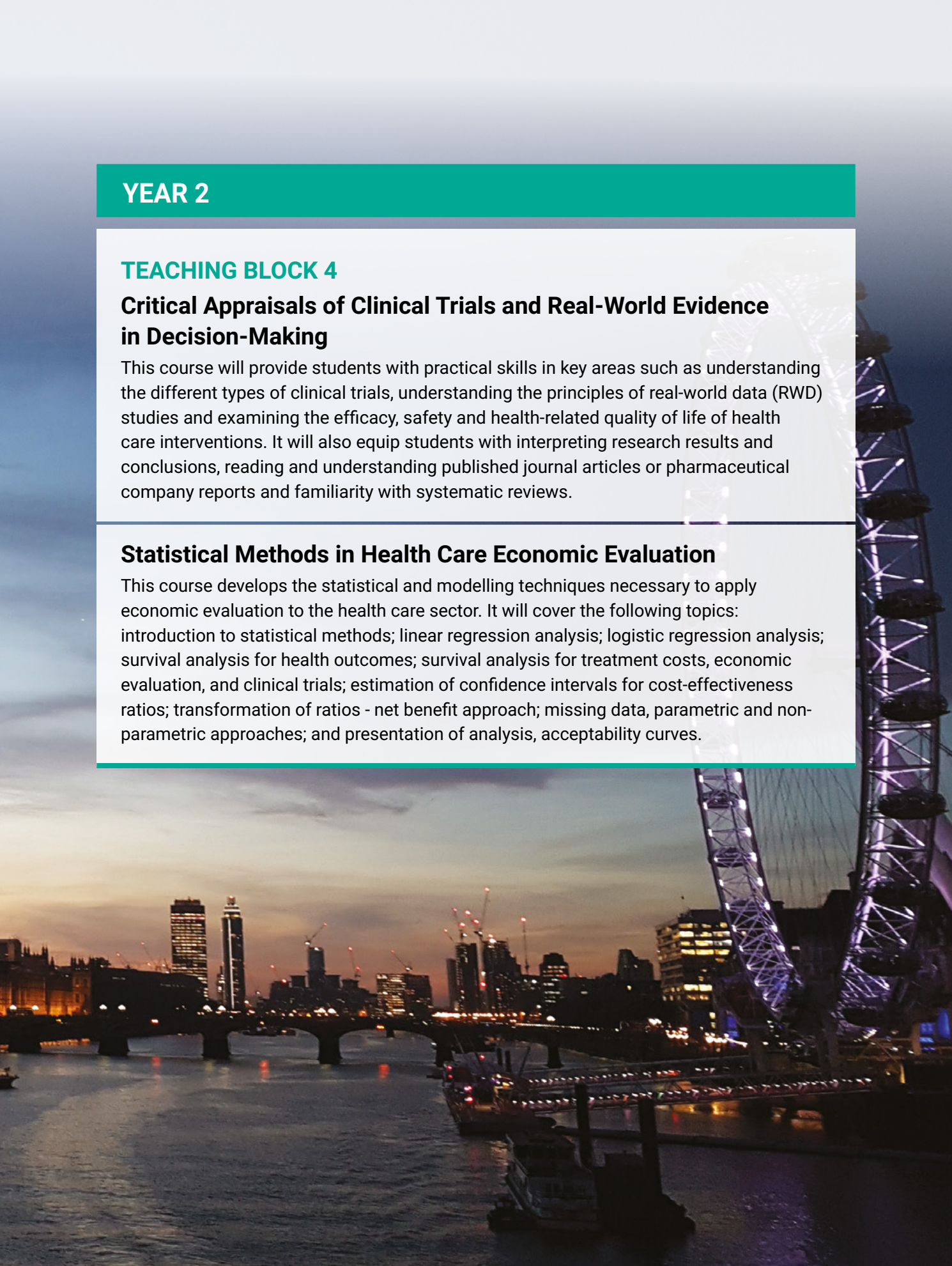
How to apply

For more information and to apply, visit
lse.ac.uk/NICE-exec-MSc

You will be required to submit your academic transcript, an academic statement of purpose, two references and your CV to complete your application.

If you have any questions about the programme, please contact us at
Healthpolicy.exec@lse.ac.uk

Contact us

lse.ac.uk/NICE-exec-MSc
Healthpolicy.exec@lse.ac.uk