



immerse
EDUCATION

CAREER
— Insights

Medicine

SYLLABUS OVERVIEW

15-18 YEARS OLD

CAMBRIDGE

About the Programme

Immerse Education is an award-winning provider of summer experiences offering academic and career-focused programmes for high school students worldwide, in such locations as Boston, Cambridge, London, New York, Oxford, San Francisco, Singapore, Sydney, Tokyo, and Toronto. Our programmes aim to deliver engaging, academically challenging content within a university-style classroom environment.

The Career Insights programmes bring together industry professionals in a unique learning model grounded in project-based learning. Students gain valuable insight into what it is like to study their chosen subject at an advanced level and apply their skills in real-world contexts through interactive sessions, career skills workshops, and industry visits.



PLEASE NOTE:

The topics depicted in this guide represent examples of the types of modules students can look forward to participating in during the programme. Please note that final syllabi are subject to modification.



Explore Future Careers

Are you inspired to pursue a career in medicine or healthcare? The Medicine Career Insights programme in Cambridge introduces you to the professional pathways that shape medical careers today. You'll explore what it means to work in modern medicine, from clinical practice and patient care to biomedical research and medical innovation, developing the curiosity, analytical thinking, and communication skills essential for future doctors and healthcare professionals.



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Project Based Sessions

Medicine is a hands-on discipline built on both science and human connection. Through collaborative projects and individual, you'll apply medical concepts to real-world case studies, exploring how diagnosis, research, and technology intersect. Activities will include practical exercises, teamwork-based problem solving, and clinical role-play, helping you develop critical reasoning and empathy, two cornerstones of effective medical practice.

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Industry Visits

Cambridge is home to one of the world's leading clusters of medical research and innovation, including the Cambridge Biomedical Campus and numerous research-driven organisations. Industry visits during the programme offer a chance to see how medicine operates beyond the classroom, connecting clinical care with biotechnology, pharmaceuticals, and medical research. By engaging with professionals and observing science in action, you'll discover how doctors, researchers, and medical innovators collaborate to improve patient outcomes.



Why Get Career Ready?

Every young person needs high-quality career guidance to make informed decisions about their future. Relevant and informative career guidance is necessary for social mobility. Despite the need for quality careers guidance for young people, it is one of the most lacking areas in schools around the world. In 2013, Gatsby introduced the Gatsby Benchmarks which offer useful insight into effective academic models that prepare students for future careers. Immerse Education's Career Insights programme is dedicated to delivering programmes that meet the eight important pillars that make up the Gatsby Benchmarks as outlined below.



A stable careers programme



Encounters with employers and employees



Learning from career and labour market information



Experiences of workplaces



Addressing the needs of each student



Encounters with further and higher education



Linking curriculum learning to careers



Personal guidance

Aim of the Medicine Programme

The Medicine Career Insights programme in Cambridge bridges the gap between medical theory and professional application. You'll explore the scientific foundations of medicine alongside the practical, ethical, and interpersonal skills needed for a successful career in healthcare. The programme also introduces you to emerging areas of research and medical technology, giving you a broader understanding of how innovation and scientific discovery continue to transform the medical profession.

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Exploring the Medical Profession

Discover the many pathways within medicine, from general practice and surgery to research and emerging specialisms. You'll learn how doctors balance science, ethics, and compassion in patient care. Through guided discussions and case-based activities, you'll explore different roles across healthcare systems and reflect on what makes each one unique. This topic helps you understand the scope of medical careers and the diverse ways professionals contribute to improving health outcomes.





Anatomy, Physiology, and Clinical Reasoning

Build an understanding of the body's structure and function, and how this knowledge underpins clinical practice. You'll study major organ systems and apply this learning through interactive case discussions and problem-solving activities. Practical exercises might include analysing patient scenarios or learning basic examination techniques. This topic encourages you to think critically about diagnosis, connecting scientific understanding with clinical reasoning, a key step toward becoming a confident, reflective medical professional.

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Communication and Patient Care

Medicine is as much about people as it is about science. In this part, you'll explore how effective communication shapes patient outcomes. You'll practise active listening, empathy, and delivering complex information clearly and sensitively. Through scenario-based exercises, you'll experience the importance of trust, teamwork, and ethical communication in healthcare settings. This topic builds interpersonal awareness, a vital skill for future doctors, nurses, and healthcare leaders.



Medical Ethics and Decision-Making

Examine the moral and ethical considerations that guide medical professionals. You'll discuss principles such as autonomy, beneficence, and confidentiality, and apply them to realistic case scenarios. These discussions help you navigate the complex decisions doctors face daily, balancing patient welfare with practical constraints. This topic encourages critical thinking and empathy, preparing you to engage thoughtfully with the ethical challenges that define modern medical practice.



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Medical Technology and Innovation

Explore how science and technology are transforming healthcare. You'll learn about innovations in areas such as telemedicine, AI diagnostics, and biotechnology, and discuss their impact on both patients and medical careers. In Cambridge, surrounded by world-leading research institutions, this topic connects your learning to real advances in medical science. You'll consider how these technologies are reshaping diagnosis, treatment, and the roles of future healthcare professionals.

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Pathways to Medical Careers

Gain practical insight into what it takes to pursue a career in medicine. You'll explore the stages of medical education, from pre-clinical studies to postgraduate training, and learn about different healthcare and research career options. This topic also covers the importance of professional skills such as resilience, adaptability, and teamwork. By reflecting on your interests and goals, you'll leave with a clearer sense of direction and confidence in taking the next steps toward a medical career.





Career Development Plan

Throughout the programme, every student will work on an individual project focused on shaping their future career pathway. This project is designed to bring together the knowledge and insights gained during the programme, including an understanding of the subject area, the industry, and the variety of opportunities it offers. Guided by their own interests and passions, students will consider potential directions for study and work. With support from tutors during one-to-one sessions, participants will develop their project into a clear and personalised plan, which they will present at the end of the programme.

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After your course

You will leave with enhanced knowledge, a clearer vision of career pathways, and practical outputs for your portfolio. Every student also receives a detailed evaluation from their tutor, which is personalised to highlight strengths and suggest potential areas for growth. This evaluation can provide valuable support for future academic or career applications.

Step into your future



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FAQS

