The BSc (Hons) in Medicine provides you with thorough knowledge of the foundations of medical science whilst helping you develop extensive decision making skills and an ethical understanding. The course also provides early, relevant clinical experience.

- The School of Medicine offers an undergraduate course: the BSc (Hons) Medicine degree. Students on this degree graduate after three years and move on to one of the University’s partner medical schools to complete a further three years of training and graduate with a Bachelor of Medicine, Bachelor of Surgery (MB ChB/MBBS).
- We provide a learning environment which integrates professional training with a sound knowledge of the scientific basis of medicine.
- You gain an appropriate early clinical experience to emphasise the clinical relevance of the medical sciences, including placements from your first year onwards.
- State-of-the-art facilities including anatomy facilities for full body dissection, clinical skills suites and integrated technology support your learning.
- The School also offers a bespoke route for eligible Canadian students, providing mentoring and teaching towards practising medicine in Canada.

**Why St Andrews?**

The BSc (Hons) in Medicine provides you with a thorough knowledge of the foundations of medical science, whilst developing skills required by ‘Tomorrow’s Doctors’. Depending on where you intend to undertake your final three years towards an MB ChB/MBBS degree, the A100 degree programme offers three different application routes (Scotland, England and No Preference) for Home and RUK students. If you are ‘overseas’ for fee purposes then you will progress to the University of Manchester.

The School also offers an A990 route for Canadians wishing to return to Canada for residency placement. The programme is only for Canadians (or those with Canadian residency rights) who are ‘overseas’ for fee purposes. You will graduate from St Andrews with a BSc (Hons) Medicine before progressing to the University of Edinburgh to complete your medical training and this will include an attachment to the University of Alberta. Students on this programme are not eligible to enter NHS Foundation Training in the UK. A100 and A990 students are taught together on the same course at St Andrews.

You will receive integrated teaching within a strong clinical context, designed to encourage you to apply your understanding of medical sciences to clinical problems. From the start you will be encouraged to develop the professional attitudes, ethical understanding and decision-making skills required of a doctor. Professionalism and patient safety are key components of the entire course. Teaching occurs in purpose-built facilities, including an anatomy dissection suite and simulated environments for clinical and communication skills teaching. You will experience clinical placements and meet patients within the NHS from first year.

**Entry requirements**

We consider all aspects of every application, including context, equivalent qualifications, the Personal Statement and UKCAT scores. However, it is likely that successful applicants will have met, or are likely to meet, the academic standards described below.

**SQA Highers:** AAAAB, including Chemistry (A grade) and one other of Biology, Mathematics or Physics. These grades should normally be obtained at the same sitting. If Mathematics, Biology and English have not been passed at Higher, each must normally have been passed at National 5 (A or B) or Intermediate 2 (A or B).

No direct entry from fifth year (S5): If you are a Scottish candidate you will not be admitted in the academic year immediately following your fifth year at school. Offers made will be conditional and based on 56 programmes of study. Applicants must be studying three subjects in S6 and likely conditions required will be BBB in either Advanced Highers or new Highers.

**GCE Advanced (A2) Level:** AAA, at the same sitting, including Chemistry and one other of Biology, Mathematics or Physics. If Biology, Mathematics and English are not being offered at Advanced (A2) level, each must normally have been passed at GCSE grade B (grade 5 in numerical grading) or better.

**International Baccalaureate Points:** 38, including at Higher level; three passes at grade 6, including Chemistry and one of Biology, Mathematics or Physics; and at Standard level, three passes at grade 6. If Mathematics, Biology or English ar being taking at Higher level they must be offered at Standard level.

Applicants presenting other qualifications are expected to have attained these at a level which is equivalent to those above.
First year
You will study the interrelationships between the pre-clinical sciences. You will receive an overview of the structure and functions of the body systems both microscopically and macroscopically, and be introduced to key themes across all years (e.g., ethics, public health, health psychology). You will study the musculoskeletal system in depth, via lectures, practical laboratories and dissection room sessions. You will be taught clinical and communication skills, and attend a community-based placement.

Second year
You will study the normal function and dysfunction of specific physiological systems (cardiovascular, respiratory, gastrointestinal, renal and reproductive systems). This will build on knowledge from your first year, whilst developing the key themes further. You will learn clinical skills related to each system, and attend more frequent placements.

Third year
You will study the normal function and dysfunction of complex integrative physiological systems (central nervous and endocrine systems). You will undertake a significant student-selected research project in the form of a dissertation. You will also consolidate your clinical training prior to moving to a partner medical school. Your clinical placements will focus on the secondary care environment.

Careers
Students with a BSc (Hons) Medicine continue to a partner medical school to complete their MB ChB or MBBS. Award of this second degree allows you to apply for postgraduate medical training relevant to your route:

- As an A100 UK/EU/International student you are eligible for provisional registration with the General Medical Council (GMC) upon graduation from the partner medical school. You will be eligible to apply to enter Foundation Year (FY) Training within the UK, which you apply for during your final year at your partner medical school. Following FY training, there are a wide range of career opportunities for doctors with over 60 different specialities available in the UK. Advice on careers in the NHS will be available throughout the course.

- Canadian students on the A990 route are not eligible to enter Foundation Year Training in the UK but receive specific mentoring and training in preparation for applying to the Canadian Resident Matching Service (CaRMS), including an attachment in Alberta during your final three years.

Accreditation
The BSc (Hons) Medicine is externally accredited by the GMC to the same standards as a primary medical qualification. Accordingly, progression is subject to both academic results and fitness to practise.

Additional entry routes:
Gateway to Medicine
The University offers this one-year programme taught in the Faculty of Science but with contributions from staff in Medicine. Applicants who are ‘overseas’ for fee purposes are not eligible to apply. For more information about the Gateway to Medicine, please see: medicine.st-andrews.ac.uk/teaching/ bsc-hons-medicine/gateway-to-medicine

International Foundation Programme for Medicine
This is a one-year preparatory programme for Medicine combining science study with advanced English for academic purposes and communication skills. Only applicants who are ‘overseas’ for fee purposes can apply. For more information about the International Foundation Programme for Medicine, please see: medicine.st-andrews.ac.uk/teaching/ bsc-hons-medicine/international-foundation

“I’ve always wanted to follow a career where I could actively help people so Medicine was the perfect fit for me. I enjoy studying the theory and science of medicine. Right from first year, you are given many opportunities to explore the different aspects of medicine. We do a lot of clinical skills and get an opportunity to study dissection from the beginning, which has been integral in my understanding of anatomy.”

Duncan (West Lothian, Scotland)
### Medicine – ScotGEM

[medicine.st-andrews.ac.uk/graduate-entry-medicine](medicine.st-andrews.ac.uk/graduate-entry-medicine)

scotgem-admissions@st-andrews.ac.uk

- This is a joint programme run by the universities of St Andrews and Dundee. This programme will be run in collaboration with the University of Highlands and Islands and four boards of NHS Scotland. First and second years will be led by the University of St Andrews, third and fourth years will be led by the University of Dundee.
- The Scottish Graduate Entry Medicine (ScotGEM) programme is the only medicine programme of its kind in Scotland. This four-year programme offers a unique and innovative programme tailored to meet the contemporary and future needs of the NHS in Scotland and focuses on rural medicine and healthcare improvement.
- The curriculum is structured around patient scenarios using a case-based learning approach. Placements will be delivered across four NHS boards in Scotland (Fife, Tayside, Highland and Dumfries & Galloway), and in third year, students will undertake a year-long ‘longitudinal integrated clerkship’ in a remote and rural area in Scotland.

**What will I study?**

ScotGEM is an intensive programme. The programme focuses on five themes: informatics, quality improvement, prescribing and therapeutics, public health and community engagement. These themes will encourage you to develop your expertise as a potential ‘agent of change’ within the health service.

**First year**

This year is based in St Andrews. You will use cases that focus on foundational medical sciences which will subsequently underpin more challenging scenarios. Consultation skills will be introduced alongside topics such as biochemistry, pharmacology, body systems and anatomy. You will have weekly clinical experience in the community.

**Second year**

This year is largely structured around the lifecycle and projects around the five themes. Much of the year will be spent on placement.

**Third and fourth years (Honours)**

In third year, you will undertake a ‘longitudinal integrated clerkship’ in a remote and rural part of Scotland. You will join a General Practice and follow patients through their illness journey over the course of a year. This approach has been shown to develop more patient-centred doctors with improved decision-making skills.

In fourth year, you will be immersed in the hospital environment in preparation for work as a junior doctor. You will complete two month-long foundation apprenticeships and other hospital-based clinical attachments. You will also arrange an eight-week period of clinical practice. This can take place anywhere in the world and will be focused on your own objectives.

**MB ChB (Bachelor of Medicine, Bachelor of Surgery)**

ScotGEM graduates will receive an MB ChB (Bachelor of Medicine, Bachelor of Surgery), which is a primary medical qualification (PMQ). ScotGEM is subject to approval by the General Medical Council (GMC). The process for accreditation has started. This process may not be complete before the first cohort of students is matriculated but is expected prior to graduation of the first cohort of students in September 2022. ScotGEM is intended to be awarded jointly by the universities of St Andrews and Dundee; any joint degree is subject to agreement and statutory approval which is not guaranteed. The universities of St Andrews and Dundee will notify you if the degree cannot be established as intended.

**Careers**

ScotGEM is designed for those interested in a career as a generalist practitioner in NHS Scotland, focusing on rural medicine and healthcare. However, the course will prepare students for any branch of medicine. As a ScotGEM graduate you will be eligible for provisional registration with the GMC and to apply to enter Foundation Year (FY) Training within the UK; you will need to apply during the final year of the programme. Advice on careers in the NHS will be available throughout the course.

**Entry requirements**

- **Degree:** 2.1 Honours degree in either Arts or Science.
- **SQA Highers/GCE Advanced (A2) Level:** Chemistry at grade B.
- **SQA National 5/GCSE Mathematics:** Standard Grade at Credit 2/Intermediate 2 at grade B/GCSE at grade B.
- **Up to date study skills:** Must have undertaken academic study in the last three years prior to entry to ScotGEM (examples: undergraduate degree, Masters, PhD).
- **Aptitude Tests:** UKCAT SJT/SJTace (in year of application) AND GAMSAT (in either the year of application or the previous year).