Majors in

Basic Medical Sciences
Forensic Science
Medical Laboratory Science
Radiation Therapy
Veterinary Health Studies

主修
基礎醫療科學 法庭科學 醫療化驗科學
放射治療學 動物健康學

Bachelor of Medical Science (Honours)
醫療科學學士 (榮譽) 學位
The Bachelor of Medical Science (Honours) (BMedSc(Hons)) is designed to serve two purposes. First, it aims to prepare professional practitioners in allied health disciplines. Second, it provides a scientific foundation for students who intend to pursue postgraduate studies in professional medical and health disciplines such as Medicine, Dentistry, Chiropractry, Veterinary Science, Chinese Medicine, Physiotherapy, etc. The objectives of the BMedSc(Hons) are as follows:

1. To demonstrate strong foundation of science and its application in the chosen major and attributes of critical analysis, creativity, problem-solving skills, independent learning; to analyze and interpret datasets (in relation to named diseases) and evaluate advancing technology; to integrate and apply relevant findings in the chosen major, research and education.

2. To exhibit good skills in communication, management concepts, interpersonal skills, teamwork approach, ethical standards and demonstrate commitment and belonging to their College, their profession and their community by engaging in College and community services involving other cultures and environments.

3. To demonstrate knowledge of the role of different healthcare disciplines, non-governmental organizations, non-profit organizations in the delivery of healthcare in Hong Kong, regionally and the world.

The programme aims at providing a sound foundation of science knowledge including quantitative skills, languages and broadening general education courses before progressing to core and discipline-based subjects. Two of these degrees are being offered for the first time in Hong Kong, namely, Forensic Science and Veterinary Health Studies, which are popular in overseas countries such as US, UK and Australia. Graduates from Medical Laboratory Science and Radiation Therapy programmes are welcomed by the public and private sectors and the demand is expected to increase with further new hospitals and clinics being built in Hong Kong. The Basic Medical Sciences degree is designed for students who want to further pursue Medicine, Dentistry, Chiropractry, Veterinary Science and Chinese Medicine overseas.
Admission Requirements

The applicants should meet one of the following requirements:

(i) Have obtained Level 3 for Chinese Language and English Language and Level 2 for Mathematics and Liberal Studies plus one Elective/Applied Learning Subject at Level 2 (“3322+2”) in HKDSE; OR

(ii) Have passes in AS Use of English and AS Chinese Language & Culture plus one AL subject/two AS subjects in HKALE and five passes in HKCEE including Chinese Language and English Language; OR

(iii) Have passes in AS Use of English and AS Chinese Language & Culture plus one AL subject/two AS subjects in HKALE and Level 2 for Chinese Language and English Language plus passes in three other subjects in HKCEE; OR

(iv) Have obtained a minimum score of 28 in International Baccalaureate Diploma and fulfilled the English requirement as stated underneath:
   a. Grade 4 or better in the Higher Level English Language (B Syllabus); or
   b. Grade 5 or better in the Standard Level English Language (B Syllabus); or
   c. Grade 4 or better in the Higher or Standard Level English Language (A1 or A2 Syllabus); or
   d. Grade 4 or better in the Standard Level English – Text and Performance; or
   e. Grade 4 or better in the Standard Level English - Literature and Performance (A1 syllabus); OR

(v) Equivalent qualifications.

In addition to meeting the general entrance requirements of TWC, preference will be given to students who have obtained Level 2 for ‘Integrated Science’ or ‘Combined Science’ in HKDSE for admission to BMedSc(Hons) programme.
Programme Structure

Core Courses
- Biochemistry
- Biophysics
- General Microbiology and Immunology
- Honours Year Project
- Human Anatomy
- Human Physiology
- Molecules, Cells and Genes
- Research Methods in Medical Science

Elective Courses
- Appreciating Social Research
- Clinical Application and Research in Chinese Medicine
- Clinical Immunology
- Public Health
- Virology

General Education Courses
- Applied Chinese Language
- Applied Statistics
- Developing English Language Skills
- Enhancing Academic English Skills
- Ethical and Legal Aspects in Health Care
- Information Technology and Multimedia Applications
- Introduction to Health Informatics
- The Development of Non-profit Organizations in Hong Kong
- Understanding and Motivating Self

Basic Medical Sciences
(124 credits)
- Advanced Anatomy
- Advanced Pathology
- Aging and Diseases
- Basic Laboratory Techniques and Instrumentations
- Basic Medical Science Practical Training [Practicum]
- Basic Neuroscience
- Complementary and Alternative Medicine
- Epidemiology
- General Pathology
- Infectious Disease and Control
- Introduction to Chinese Medicine
- Introduction to Medical Imaging
- Pathophysiology
- Pharmacology
- Principles of Molecular Diagnostics
- Psychosocial Dimensions of Health and Illness
- Toxicology

Veterinary Health Studies
(126 credits)
- Anaesthesia and Critical Care
- Animal Anatomy & Physiology I & II
- Animal Behavior and Training
- Animal First Aid
- Animal Health and Welfare
- Animal Rehabilitation and Physiotherapy
- Care of Wildlife and Exotic Animals
- Clinical Pathology and Diagnostic Techniques
- Clinical Practice I – III [Practicum]
- Clinical Reasoning
- Counselling and Education in Veterinary Practice
- Fundamentals of Acupuncture and TCM
- Introduction to Chinese Medicine
- Introduction to Medical Imaging
- Management of Organizations
- Nutrition and Feeding
- Pet Health and Preventive Care
- Pharmacology
- Practice Management
- Veterinary Public Health
### Radiation Therapy
**138 credits**
- Advanced Radiotherapy Techniques and Management
- Applied Statistics*
- Basic Engineering Physics and Radiotherapy Equipment
- Clinical Studies I – V [Practicum]
- Computed Tomography
- Contemporary Cancer Therapy
- Ethical and Legal Aspects in Health Care*
- General Pathology
- Imaging Anatomy
- Introduction to Health Informatics*
- Introduction to Magnetic Resonance Imaging
- Introduction to Medical Imaging
- Patient Care in Radiotherapy Practice
- Principles of Oncology and Radiotherapy
- Psychosocial Dimensions of Health and Illness
- Radiation Oncology and Radiotherapy Technique I & II
- Radiation Physics

### Medical Laboratory Science
**128 credits**
- Aging and Diseases
- Basic Laboratory Techniques and Instrumentations
- Clinical Laboratory Cellular Pathology
- Clinical Laboratory Chemistry and Immunochemistry
- Clinical Laboratory Haematology and Transfusion Science
- Clinical Laboratory Medical Microbiology
- General Pathology
- Infectious Disease and Control
- Introduction to Chinese Medicine
- Medical Laboratory Clinical Training [Practicum]
- Pathophysiology
- Pharmacology
- Principles of Molecular Diagnostics
- Psychosocial Dimensions of Health and Illness

### Forensic Science
**124 credits**
- Analytical Chemistry
- Basic Laboratory Techniques and Instrumentations
- Biomedical Criminalistics
- Criminal and Crime Scene Investigation
- Forensic Instrumentation and Analytical Methods
- Forensic Science Practical Training [Practicum]
- General Pathology
- Imaging Anatomy
- Infectious Disease and Control
- Introduction to Chinese Medicine
- Introduction to Criminal Justice
- Introduction to Medical Imaging
- Pathophysiology
- Pharmacology
- Principles of Molecular Diagnostics
- Psychosocial Dimensions of Health and Illness
- Techniques in Human Identification
- Toxicology
Articulation Paths

Basic Medical Sciences graduates are prepared as pre-professional students who can become eligible to enter Medicine, Dentistry, Chiropractry, Chinese Medicine and Veterinary Science in the region or overseas.

Graduates of Forensic Science, Medical Laboratory Science and Radiation Therapy will have opportunities to further their studies to taught Master’s or to register for research postgraduate degree programmes as they will have the attributes of fundamental laboratory skills, an inquisitive mind and problem-solving skills.

Qualified Basic Medical Sciences and Veterinary Health Studies graduates will have the opportunities to enter St. George’s University into their graduate degree programmes, including medicine and veterinary medicine disciplines. A Memorandum of Understanding with St. George’s University has been signed for this undertaking.

Career Prospects

Basic Medical Sciences graduates will be mainly prepared for postgraduate education overseas, though they may also pursue research degrees (MPhil and PhD) to enter academic careers.

Opportunities for Forensic Science graduates will be available at the Government Laboratory under the Forensic Science Division, The Hong Kong Police Force, The Fire Services, the Customs and Excise Department, and the Agriculture, Fisheries and Conservation Department of the Hong Kong Government.

The degrees for Medical Laboratory Science and Radiation Therapy are terminal awards allowing the graduates to be recognized and be gainfully employed in their respective professions after meeting statutory registration requirements. These graduates will be mainly employed by private and public clinics, including those of the Department of Health, the Hospital Authority, private hospitals and clinics.

Veterinary Health Studies graduates will mainly fill up jobs as Veterinary nurses, assistants or aides.

Collaboration with Overseas Universities

In addition, the College has recently reached an agreement with the University of Sydney for exchanges and visits of our BMedSc (Hons) students to their programmes in the Faculties of Dentistry, Health Sciences, Medicine, Nursing, and Pharmacy.

The College will further its agreements to other universities to articulate the graduates of the BMedSc (Hons) graduates to other related postgraduate programmes.
Co-operative Education Scheme

All degree students (except senior year entrants) are required to complete 8 to 12 months of the Co-operative Education Scheme (Co-op) during their course of study. During this period, students engage in full-time paid employment while at the same time reading an appropriate number of courses at the College. The Co-op approach to higher education is designed to bridge the gap between academia and the real world, and to integrate and mutually reinforce the learning experience in the classroom and in the workplace.

Characteristics of the Scheme

Formal Recognition

Co-op is one of the graduation requirements of all Bachelor's degree students of the College. Performance of the students will be graded and reflected in their academic transcripts.

Formal Curriculum

Co-op is regarded as an educational strategy integrating classroom learning and progressive work experiences, with a constructive academic relationship between teaching staff and co-op faculties/administrators. Students will obtain multiple work experiences in formalised sequence with study leading to degree completion.

Total Experience

Students will engage in 8 to 12 months of full-time paid employment while at the same time undertaking an appropriate number of courses.

Full Support from the College

The Co-op and Career Coaching Centre provides students with pre-employment preparation, job matching services, ongoing advising, monitoring, as well as supervision. All these activities will be conducted in coordination with the academic departments and prospective employers.

Languages & General Education

The General Education courses are offered by the Languages and General Education Centre and categorised according to the rudiments of Confucius’ Six Classical Arts as follows:

- **Rites** (禮): morality, ethics and law, by which, one defines self and interpersonal relations
- **Music** (樂): aesthetic literacy in arts, music, dance, drama and performance as well as handicrafts
- **Archery** (射): stamina training which cultivates mindfulness and concentration
- **Horsemanship** (御): endurance training that nurtures fitness and wellness
- **Calligraphy** (書): language and literature courses covering reading, writing, and classics appreciation
- **Arithmetic** (數): mathematics, science and information technology courses that enhance logical thinking, problem-solving, and exploratory learning

To strengthen students’ English language skills, the College has formed partnership with the British Council to engage in an “English Smart” Project. Under this Project, experienced teaching staff from the British Council form a team with English teachers of our College, not only to provide English training to our students, but also to develop English course syllabus and prepare relevant course materials. Study tools and materials are also provided for students to get themselves well-prepared for the International English Language Testing System (IELTS).
Bachelor degree students (except senior year entrants) are required to participate in a Co-operative Education Scheme to enhance their learning experience, for which additional credits will be awarded upon successful completion. No tuition fees will be charged for these additional credits.

The Bachelor of Medical Science (Hons) programme is accredited by the Hong Kong Council for Accreditation of Academic and Vocational Qualifications for a period from 1 October 2012 to 31 August 2017 and is approved by the Chief Executive-in-Council. The College is currently seeking recognition of the programme from the Medical Laboratory Technologists Board and the Radiographers Board of the Supplementary Medical Professions Council (SMPC) for the purpose of registration under Section 12 of the Supplementary Medical Professions Ordinance. The progress can be ascertained from the Boards of the SMPC at www.smp-council.org.hk/smp/en/intro.php.

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**Programme Summary**

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<thead>
<tr>
<th>Title of the Programme (English)</th>
<th>Bachelor of Medical Science (Honours)</th>
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<tbody>
<tr>
<td>Title of the Programme (Chinese)</td>
<td>醫療科學學士(榮譽)學位</td>
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<td>Mode and Length of Study</td>
<td>Full-time 4 years</td>
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<td>Qualification Framework Level</td>
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<tr>
<td>Credits Required for Graduation#</td>
<td>Major in Basic Medical Sciences: 124 credits</td>
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<tr>
<td></td>
<td>Major in Forensic Science: 124 credits</td>
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<td>Medium of Instruction</td>
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<td>Application Fee</td>
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<tr>
<td>Tuition Fee per Credit^</td>
<td>HK$3,200 per credit</td>
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</tbody>
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Students can apply for grants and loans through Student Financial Assistance Agency (SFAA).

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^ The tuition fee for 2014/15 is subject to adjustment.

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**Tung Wah College**

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