香港學術及職業資歷評審局
Hong Kong Council for Accreditation of
Academic & Vocational Qualifications

SUMMARY ACCREDITATION REPORT

TUNG WAH COLLEGE

LEARNING PROGRAMME ACCREDITATION

BACHELOR OF SCIENCE (HONOURS) IN MEDICAL LABORATORY SCIENCE

BACHELOR OF SCIENCE (HONOURS) IN RADIATION THERAPY

SEPTEMBER 2016

This accreditation report is issued by the Hong Kong Council for Accreditation of Academic and Vocational Qualifications (HKCAAVQ) in its capacity as the Accreditation Authority as provided for under the Accreditation of Academic and Vocational Qualifications Ordinance (Cap 592) (AAVQO). This report outlines the HKCAAVQ's determination, the validity period of the determination as well as any conditions or restrictions on the determination.

1. Introduction

1.1 Tung Wah College (the College) was incorporated in 2010 as a wholly-owned subsidiary of Tung Wah Group of Hospitals and operates independently as a privately-funded tertiary education institution. The College underwent an Institutional Review (IR) by HKCAAVQ in October 2010 and gained Cap 320 registration status from the Hong Kong Government as a degree-awarding Post Secondary College in 2011. The College is now operating bachelor and sub-degree programmes in the areas of business administration, health sciences, medical sciences and social sciences.

1.2 Based on the Service Agreement, HKCAAVQ was commissioned by the College to conduct a learning programme accreditation exercise with the following Terms of Reference:

(a) To conduct an accreditation test as provided for in the AAVQO to determine whether the Bachelor of Science (Honours) in Medical Laboratory Science (MLS) programme and the Bachelor of Science (Honours) in Radiation Therapy (RT) programme of the College meet the stated objectives and QF standard and can be offered as accredited programmes from the 2017/18 academic year; and

(b) To issue to the College an accreditation report setting out the results of the determination in relation to (a) by HKCAAVQ.

1.3 The accreditation exercise was conducted according to the relevant accreditation guidelines referred to in the Service Agreement and the Terms of Reference stated therein. A site visit took place from 27 to 29 July 2016.

2. HKCAAVQ's Accreditation Determination

Having due consideration of the accreditation panel's observations and comments as presented in this Report, HKCAAVQ makes the following accreditation determination:

2.1 **Learning Programme Accreditation**

☑ Approval

Name of Operator	Tung Wah College 東華學院	
Name of Award Granting Body	Tung Wah College 東華學院	
Title of Learning Programme	Bachelor of Science (Honours) in Medical Laboratory Science 醫療化驗科學(榮譽)理學士	Bachelor of Science (Honours) in Radiation Therapy 放射治療科學 (榮譽) 理學士
Title of Qualification (Exit Award)	Bachelor of Science (Honours) in Medical Laboratory Science 醫療化驗科學(榮譽)理學士	Bachelor of Science (Honours) in Radiation Therapy 放射治療科學(榮譽) 理學士
Primary Area of Study and Training	Medicine, Dentistry and Health Sciences	Medicine, Dentistry and Health Sciences
Sub-area (Primary Area of Study and Training	Medicine	Medicine
QF Level	Level 5	Level 5
QF Credits	807	698
Mode of Delivery and Programme Length	Full-time, 4 years	Full-time, 4 years
Start Date of Validity Period	1 September 2017	1 September 2017
End Date of Validity Period	31 August 2022	31 August 2022
Number of Enrolment	One enrolment per year	One enrolment per year
Maximum Number of New Students	30 Year 1 students per year	15 Year 1 students per year 5 Year 3 students per year
Specification of Competency Standards-based Programme	☐ Yes	☑ No

Remarks to be indicated on the QR	The MLS programme includes Clinical Practicums for 192 QF credits while the RT programme includes Clinical Studies for 150 QF credits.
Address of Teaching Venue	(1) King's Park Campus, 31 Wylie Road, Homantin, Kowloon (2) Mong Kok Campus, 90A & 98, Shantung Street, Mongkok, Kowloon

Restriction

The College is required to obtain professional recognition from the Medical Laboratory Technologists Board for the MLS programme, and the Radiographers Board for the RT programme before graduation of the first cohort of students.

3. Programme Details

The following programme information is provided by the operator.

3.1.1 MLS Programme Objectives (POs) and Programme Intended Learning Outcomes (PILOs)

- The POs of the MLS programme are to:
  (i) Provide students with knowledge and skills in clinical and laboratory aspects of modern laboratory medicine;
  (ii) Develop students' understanding of all the foundation scientific knowledge and skills for preparing their practice as Medical Laboratory Scientists;
  (iii) Provide students with adequate clinical and analytical skills through substantive practical and clinical training sessions/placements, both at the College and in medical laboratories in public and private sectors;
  (iv) Enhance students' interpersonal skills, including teamwork and communication skills;
  (v) Develop students' critical and creative thinking as well as analytical and problem solving skills;
  (vi) Nurture students' appreciation of value of life and develop their empathy for fellow citizen's health and well-being, thus better-preparing them as a caring professional healthcare provider; and
  (vii) Expand students' understanding and appreciation of other cultures and environments.

- The PILOs of the MLS programme are to enable students to:

PILO1	Apply critical, creative thinking and analytical skills in problem-solving and decision making and use of basic knowledge and skills in integrating research studies, evaluating and utilizing research findings in clinical laboratory practice.
PILO2	Assess scientific methods and design of experiments to test hypotheses and thereby experience the process of laboratory investigations and technology discovery.
PILO3	Contribute to the future of the population at large through commitment to life-long and life-wide learning and uphold the ethical, legal and professional standards of medical laboratory practice.
PILO4	Acquire appropriate foundation knowledge in theory and practice of Medical Laboratory Science according to prescribed laboratory standards set by the Supplementary Medical Professions Council.
PILO5	Develop the skills in analysis, presentation and interpretation of results of clinical laboratory data in relation to health / disease of individuals.
PILO6	Demonstrate professionalism by working in accordance with good and safe clinical laboratory practice.
PILO7	Demonstrate administrative skills consistent with philosophies of quality assurance, laboratory education, client relations and resource management.
PILO8	Apply the fundamental tenets of medical science including, but not limited to, human biology, microbiology, medical physics, statistics taking into account the relationship between medicine, individual and society, including contemporary ethical and legal issues in animal and human research.
PILO9	Demonstrate effective communication skills and be proficient in both Chinese and English, acquire a solid foundation in general education as well as good social, interpersonal skills and teamwork spirit.
PILO10	Demonstrate social awareness and understanding of the community roles and value of non-profit organizations in terms of their missions, culture and overall impact and significance in Hong Kong.

3.1.2 RT Programme Objectives (POs) and Programme Intended Learning Outcomes (PILOs)

- The POs of the RT programme are to:
  (i) Provide students with knowledge, technology and skills in the professional and quality practice of radiation science, medical imaging, radiation therapy and oncology;
  (ii) Develop students' understanding and appreciation of the contributions of different disciplines to health and illness management;
  (iii) Nurture students' appreciation of values in life and develop their empathy for other people's health situation;
  (iv) Develop students' critical and creative thinking as well as analytical and problem solving skills;
  (v) Enhance students' interpersonal skills, including teamwork and communication skills in the healthcare setting; and
  (vi) Expand students' understanding and appreciation of other cultures and environments.

- The PILOs of the RT programme are to enable students to:

PILO1	Demonstrate possession of a knowledge base for the practice of oncology and radiotherapy.
PILO2	Acquire professional competencies in the provision of quality radiotherapy service to patients.
PILO3	Demonstrate readiness to accept new challenges and willingness to critically examine new technique and technology in radiotherapy related professional practice.
PILO4	Apply ethical, legal and professional standards of in clinical practice of radiotherapy and oncology.
PILO5	Apply the fundamental tenets of medical science including, but not limited to, human anatomy and physiology, microbiology, medical physics, statistics taking into account the relationship between medicine, individual and society.
PILO6	Apply critical, creative thinking, evidence-based approach and analytical skills in problem-solving and decision making and use basic knowledge and skills in integrating research studies, evaluating and utilizing research findings in healthcare practice.

PILO7	Demonstrate communication skills and be proficient in both Chinese and English, acquire a solid foundation in general education as well as good social, interpersonal skills and teamwork spirit in the social and healthcare setting.
PILO8	Assess scientific method and design research projects to test hypotheses and thereby experience the process of discovery.
PILO9	Demonstrate social awareness and understanding of the community value of non-profit organizations in terms of their missions, culture and overall impact and significance in Hong Kong.
PILO10	Be committed to life-long and life-wide learning in future career development.

3.2 Programme Structure

The structure of the programme is summarised below:

MLS

Category	**No. of Courses**	**No. of Academic Credits (%)**
Discipline courses	31 (77.5)	108 (80%)
Language courses	3 (7.5%)	9 (6.7%)
General Education (GE) courses	6 (15%)	18 (13.3%)
Total	**40 (100%)**	**135 (100%)**

RT

Category	**No. of Courses**	**No. of academic Credits (%)**
Discipline courses	37 (84.1%)	117 (84.8%)
Language courses	3 (6.8%)	9 (6.5%)
General Education (GE) courses	4 (9.1%)	12 (8.7%)
Total	**44 (100%)**	**138 (100%)**

3.3 Graduation Requirements

To be considered for the award of the programme, a student should

- complete the minimum required credit units as prescribed for the programme with a gGPA of at least 2.0;
- achieve GPA of 1.0 or above in all courses in the programme;

- pass the graduation project / internship / practicum / Work-Integrated Learning Programme (WILP), if any, as prescribed for the programme;
- complete the Community Service programme required of the programme; and
- attain a valid score of 6.0 in IELTS or equivalent.

For the MLS and RT programmes, students are required to pass the Honours Year Project, the Clinical Practicum and participate in at least four College Seminars in each academic year of the WILP.

3.4 Admission Requirements

3.4.1 To be eligible for admission to Year 1 of the MLS programme, an applicant should:

Year 1

- obtain Level 3 in Chinese Language and English Language and Level 2 in Mathematics and Liberal Studies plus one Elective/Applied Learning Subject at Level 2 ("3322+2") in HKDSE. Preference will be given to students who have obtained Level 2 or above for Chemistry or Level 3 or above in Combined Science (including Chemistry) in HKDSE; OR
- pass AS Use of English and AS Chinese Language and 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
- obtain the International Baccalaureate (IB) Diploma with a minimum score of 28 and fulfil the English language requirements:
  (i) Grade 4 or better in the Higher Level English Language (B Syllabus); or
  (ii) Grade 5 or better in the Higher Level English Language (B Syllabus); or
  (iii) Grade 4 or better in the Higher or Standard Level English Language (A1 or A2 Syllabus); or
  (iv) Grade 4 or better in the Standard Level English – Text and Performance; or
  (v) Grade 4 or better in the Standard Level English – Literature and Performance (A1 Syllabus); or
  (vi) Preference for those with Grade 3 or better in High Level Chemistry; OR
- meet the 2nd cut-off line of the respective province for admission to mainland key universities in the National Joint College Entrance Examination (JEE) and the scores of English Language is over

100 (普通高等學校聯合招生考試(JEE,PRC)達到所屬省市報讀第二批重點高校分數線以上及英語科達 100 分或以上); OR

- obtain equivalent qualifications; OR
- reach the age of 25 years old or above with a minimum of 3 years relevant working experience.

3.4.2 To be eligible for admission to Year 1 and Year 3 of the RT programme, an applicant should:

Year 1

- obtain Level 3 in Chinese Language and English Language and Level 2 in Mathematics and Liberal Studies plus one integrated science or physics subject at Level 3 (3322+2); OR
- pass in AS Use of English and AS Chinese Language and Culture plus one AL subject/two AS subjects in HKALE in Biology and Physics and Level 2 for Chinese Language and English Language in HKDSE plus passes in three other subjects in HKCEE; OR
- obtain the International Baccalaureate (IB) Diploma with a minimum score of 28 and fulfil the English language requirements:
  (i) Grade 4 or better in the Higher Level English Language (B Syllabus); or
  (ii) Grade 5 or better in the Standard Level English Language (B Syllabus); or
  (iii) Grade 4 or better in the Higher or Standard Level English Language (A1 or A2 Syllabus); or
  (iv) Grade 4 or better in the Standard Level English - Text and Performance; or
  (v) Grade 4 or better in the Standard Level English - Literature and Performance (A1 Syllabus); OR
- meet the 2nd cut-off line of the respective province for admission to mainland key universities in the National Joint College Entrance Examination (JEE) and the scores of English Language is over 100 (普通高等學校聯合招生考試(JEE,PRC)達到所屬省市報讀第二批重點高校分數線以上及英語科達 100 分或以上); OR
- obtain equivalent qualifications (such as meeting the admission requirements of a degree programme offered outside Hong Kong); OR
- reach the age of 25 years old or above with a minimum of 3 years relevant working experience.

Year 3

- complete a BSc in Radiography or Medical Imaging; OR
- obtain equivalent qualifications.

3.5 Graduate Profile

- Please refer to Appendices 1 and 2.

4. Substantial Change

4.1 The accreditation status of the learning programme(s) will lapse upon the expiry of the validity period or HKCAAVQ may withdraw the accreditation status at any time during the validity period if there are substantial changes made to the programme(s) that have not been approved by HKCAAVQ. Please refer to the '*Guidance Notes on Substantial Change to Accreditation Status*' in seeking approval for proposed changes. The Guidance Notes can be downloaded from the HKCAAVQ website.

5. Qualifications Register

5.1 Qualifications accredited by HKCAAVQ are eligible for entry into the Qualifications Register (QR) at http://www.hkqr.gov.hk for recognition under the Qualifications Framework (QF). The Operator should apply separately to have their quality-assured qualifications entered into the QR.

5.2 Only learners who are admitted to the named accredited learning programme during the validity period and who have graduated with the named qualification uploaded in the QR will be considered to have acquired a qualification recognised under the QF.

Appendix 1

Graduate Profile
Bachelor of Science (Honours) in Medical Laboratory Science

Qualification Title	Bachelor of Science (Honours) in Medical Laboratory Science 醫療化驗科學(榮譽)理學士
Qualification Type	Bachelor degree
QF Level	Level 5
Primary Area of Study and Training	Medicine, Dentistry and Health Sciences
Sub-area (Primary Area of Study and Training)	Medicine
Other Area of Study and Training	N/A
Sub-area (Other Area of Study and Training)	N/A
Programme Objectives	(a) Provide students with knowledge and skills in clinical and laboratory aspects of modern laboratory medicine; (b) Develop students' understanding of all the foundation scientific knowledge and skills for preparing their practice as Medical Laboratory Scientists; (c) Provide students with adequate clinical and analytical skills through substantive practical and clinical training sessions/placements, both at the College and in medical laboratories in public and private sectors; (d) Enhance students' interpersonal skills, including teamwork and communication skills; (e) Develop students' critical and creative thinking as well as analytical and problem solving skills; (f) Nurture students' appreciation of value of life and develop their empathy for fellow citizen's health and well-being, thus better-preparing them as a caring professional healthcare provider; and (g) Expand students' understanding and appreciation of other cultures and environments.

Programme Intended Learning Outcomes	**PILO 1:** Apply critical, creative thinking and analytical skills in problem-solving and decision making and use of basic knowledge and skills in integrating research studies, evaluating and utilizing research findings in clinical laboratory practice. **PILO 2:** Assess scientific methods and design of experiments to test hypotheses and thereby experience the process of laboratory investigations and technology discovery. **PILO 3:** Contribute to the future of the population at large through commitment to life-long and life-wide learning and uphold the ethical, legal and professional standards of medical laboratory practice. **PILO 4:** Acquire appropriate foundation knowledge in theory and practice of Medical Laboratory Science according to prescribed laboratory standards set by the Supplementary Medical Professions Council. **PILO 5:** Develop the skills in analysis, presentation and interpretation of results of clinical laboratory data in relation to health / disease of individuals. **PILO 6:** Demonstrate professionalism by working in accordance with good and safe clinical laboratory practice. **PILO 7:** Demonstrate administrative skills consistent with philosophies of quality assurance, laboratory education, client relations and resource management. **PILO 8:** Apply the fundamental tenets of medical science including, but not limited to, human biology, microbiology, medical physics, statistics taking into account the relationship between medicine, individual and society, including contemporary ethical and legal issues in animal and human research. **PILO 9:** Demonstrate effective communication skills and be proficient in both Chinese and English, acquire a solid foundation in general education as well as good social, interpersonal skills and teamwork spirit. **PILO 10:** Demonstrate social awareness and understanding of the community roles and value of non-profit organizations in terms of their missions, culture and overall impact and significance in Hong Kong.
Education Pathways	The programme curriculum meets the basic educational requirements for admission into postgraduate programmes, e.g. Master of Science in Medical Laboratory Science, Master of Medical Sciences, and Master of Science in Biochemical & Biomedical Sciences.
Employment Pathways	Medical Laboratory Technologists
Minimum Admission Requirements	(a) Have obtained Level 3 in Chinese Language and English Language and Level 2 in Mathematics and Liberal Studies plus one Elective/Applied Learning Subject at Level 2 (“3322+2”) in HKDSE; OR

	(b) Have passes in AS Use of English and AS Chinese Language and 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 (c) Have obtained the International Baccalaureate (IB) Diploma with a minimum score of 28 and fulfilled the English language requirements: i. Grade 4 or better in the Higher Level English Language (B Syllabus); or ii. Grade 5 or better in the Higher Level English Language (B Syllabus); or iii. Grade 4 or better in the Higher or Standard Level English Language (A1 or A2 Syllabus); or iv. Grade 4 or better in the Standard Level English – Text and Performance; or v. Grade 4 or better in the Standard Level English – Literature and Performance (A1 Syllabus); or vi. Preference for those with Grade 3 or better in High Level Chemistry; OR (d) Have met the 2nd cut-off line of the respective province for admission to mainland key universities in the National Joint College Entrance Examination (JEE) and the scores of English Language is over 100 (普通高等學校聯合招生考試(JEE,PRC)達到所屬省市報讀第二批重點高校分數線以上及英語科達100分或以上); OR (e) Have obtained equivalent qualifications (such as meeting the admission requirements of a degree programme offered outside Hong Kong);OR (f) Have reached the age of 25 years old or above with a minimum of 3 years relevant working experience. **Note:** 1) Preference will be given to students who have obtained Level 2 or above for Chemistry or Level 3 or above in Combined Science (including Chemistry) in HKDSE. 2) The programme aims to provide students with training and knowledge for equipping them to be an efficient and effective healthcare worker. It is expected that prospective students should possess relevant foundation scientific knowledge in order to benefit from learning.
Operator	Tung Wah College

Appendix 2

Graduate Profile
Bachelor of Science (Honours) in Radiation Therapy

Qualification Title	Bachelor of Science (Honours) in Radiation Therapy 放射治療科學(榮譽)理學士
Qualification Type	Bachelor degree
QF Level	Level 5
Primary Area of Study and Training	Medicine, Dentistry and Health Sciences
Sub-area (Primary Area of Study and Training)	Medicine
Other Area of Study and Training	N/A
Sub-area (Other Area of Study and Training)	N/A
Programme Objectives	(a) Provide students with knowledge, technology and skills in the professional and quality practice of radiation science, medical imaging, radiation therapy and oncology; (b) Develop students' understanding and appreciation of the contributions of different disciplines to health and illness management; (c) Nurture students' appreciation of values in life and develop their empathy for other people's health situation. (d) Develop students' critical and creative thinking as well as analytical and problem solving skills; (e) Enhance students' interpersonal skills, including teamwork and communication skills in the healthcare setting; and (f) Expand students' understanding and appreciation of other cultures and environments
Programme Intended Learning Outcomes	**PILO 1** Demonstrate possession of a knowledge base for the practice of oncology and radiotherapy. **PILO 2** Acquire professional competencies in the provision of quality radiotherapy service to patients. **PILO 3** Demonstrate readiness to accept new challenges and willingness to critically examine new technique and technology in radiotherapy related professional practice.

	PILO 4 Apply ethical, legal and professional standards of in clinical practice of radiotherapy and oncology. **PILO 5** Apply the fundamental tenets of medical science including, but not limited to, human anatomy and physiology, microbiology, medical physics, statistics taking into account the relationship between medicine, individual and society. **PILO 6** Apply critical, creative thinking, evidence-based approach and analytical skills in problem-solving and decision making and use basic knowledge and skills in integrating research studies, evaluating and utilizing research findings in healthcare practice. **PILO 7** Demonstrate communication skills and be proficient in both Chinese and English, acquire a solid foundation in general education as well as good social, interpersonal skills and teamwork spirit in the social and healthcare setting. **PILO 8** Assess scientific method and design research projects to test hypotheses and thereby experience the process of discovery. **PILO 9** Demonstrate social awareness and understanding of the community value of non-profit organizations in terms of their missions, culture and overall impact and significance in Hong Kong. **PILO 10** Be committed to life-long and life-wide learning in future career development.
Education Pathways	The programme curriculum meets the basic educational requirements for admission into postgraduate programmes, e.g. Master Degree in Medical Imaging and Radiation Science, Master Degree in Health Management, etc.
Employment Pathways	Radiation Therapist
Minimum Admission Requirements	<u>Year 1 Entry</u> (a) Have obtained Level 3 in Chinese Language and English Language and Level 2 in Mathematics and Liberal Studies plus one integrated science or physics subject at Level 3 (3322+2); OR (b) Have passes in AS Use of English and AS Chinese Language and Culture plus one AL subject/two AS subjects in HKALE in Biology and Physics and Level 2 for Chinese Language and English Language in HKDSE plus passes in three other subjects in HKCEE; OR (c) Have obtained the International Baccalaureate (IB) Diploma with a minimum score of 28 and fulfilled the English language requirements: i. Grade 4 or better in the Higher Level English Language (B Syllabus); or ii. Grade 5 or better in the Standard Level English Language (B Syllabus); or

	iii. Grade 4 or better in the Higher or Standard Level English Language (A1 or A2 Syllabus); or iv. Grade 4 or better in the Standard Level English - Text and Performance; or v. Grade 4 or better in the Standard Level English - Literature and Performance (A1 Syllabus); OR (d) Have met the 2nd cut-off line of the respective province for admission to mainland key universities in the National Joint College Entrance Examination (JEE) and the scores of English Language is over 100 (普通高等學校聯合招生考試(JEE,PRC)達到所屬省市報讀第二批重點高校分數線以上及英語科達100分或以上); OR (e) Have obtained equivalent qualifications (such as meeting the admission requirements of a degree programme offered outside Hong Kong); OR (f) Have reached the age of 25 years old or above with a minimum of 3 years relevant working experience. <u>Senior Year Entry</u> (a) Have completed a BSc in Radiography or Medical Imaging; OR (b) Have obtained equivalent qualifications.
Operator	Tung Wah College