

Bachelor of Health Science (Medical Imaging) [BHSMI]

To be read in conjunction with Unitec’s Academic Statute and associated Policies and Procedures.

These programme regulations apply to the Bachelor of Health Science (Medical Imaging) [BHSMI] programme, which leads to the award of Bachelor of Health Science (Medical Imaging) (Level 7) qualification (360 Credits) [CA2054-4].

These regulations come into effect from **Semester 1, 2023**.

1. Ngā Ture Hei Whakaurunga | Admission Requirements

Admission Requirements comply with Unitec’s Admission Requirements Guidelines.

To be eligible for admission to this programme, all applicants must meet three admission requirements:

- a. Requirements for either general admission, special admission, or discretionary admission
- b. Any additional Programme specific requirements
- c. English language requirements

1.1 Whakaurunga Whānui | General Admission

To be admitted to this programme all applicants must be at least 17 years of age on the date of the programme’s commencement for the semester in which they wish to enrol, and meet the following requirements:

Applicants must have:

a minimum of 42 NCEA credits at Level 3 or higher on the New Zealand Qualifications Framework, including:

- 14 credits at Level 3 or higher in each of two subjects taken from an approved subject list, and a further 14 credits at Level 3 or higher taken from no more than two additional domains on the New Zealand Qualifications Framework (and
- a minimum of 14 credits at Level 1 or higher in mathematics or pangarau on the New Zealand Qualifications Framework, plus;
- a minimum of eight credits at Level 2 or higher in English or Te Reo Māori (a minimum of four in reading and four in writing),

A minimum of 12 of the 42 NCEA credits at level 3 must include English or a Literacy approved subject, Mathematics and one Science subject (Physics preferred);

OR

have a grade of C or better in the New Zealand University Bursaries Examinations in each of English, Mathematics and one Science subject;

OR

equivalent.

1.2 Whakaurunga Motuhake | Special Admission

Applicants must have:

- a. attained the age of 20 years on or before the first day of the semester in which study for the programme is to commence; and
- b. provided sufficient evidence of aptitude or appropriate work or other life experience that would indicate a successful outcome in the qualification.

1.3 Whakaurunga Kōwhiringa | Discretionary Admission

In exceptional cases an applicant who does not meet the general admission requirements and who has not reached the age of 20 on or before the first day of the semester in which study is to commence may apply for discretionary admission. In assessing whether to grant discretionary admission in exceptional cases, the primary focus will be on the applicant’s level of preparedness for study at the required level. Applicants may be granted Discretionary Admission if they have, for example:

- a minimum total of 72 NCEA credits at level 2 in their four best subjects; or

	<ul style="list-style-type: none"> • a maximum total of 12 in New Zealand Sixth Form Certificate in their four best subjects, or equivalent; or • have a recognised medical imaging qualification, for example DCR(R), ACBD, NZCBD or NDMDI. <p>1.4 Whakaurunga Tautui Programme Specific Requirements In addition to meeting the requirements for general, special, or discretionary admission the following Programme Specific requirements must be met prior to admission:</p> <ol style="list-style-type: none"> a. a completed self-declaration of medical condition(s), if any, that may prevent full participation in the programme and/or prevent registration with a regulatory authority (as applicable); and b. Be able to participate in all clinical aspects of the programme of study; and c. Applicants must give their consent to undergo a process of Safety Checking as set out in the Children’s (Requirements for Safety Checks of Children’s Workers) Regulations 2015 (“the Regulations”). This checking process will include: <ol style="list-style-type: none"> i. Providing 2 forms of identification, and evidence of any name changes (if any); ii. Consent to Unitec undertaking a Police Vet check, or a Criminal Record Check (as required), and advise Unitec of any current charges or pending court matters; iii. Providing a chronological summary of his or her work history, if any, for the preceding 5 years and the name of any professional organisations and/or licensing authorities and/or registration authorities that the student is a member of or been licensed by and that is relevant to the proposed placement (if required); iv. Providing the names of 2 referees who may be contacted by Unitec or your placement provider (if required); v. Attending a face to face interview (if required) for the purposes of a risk assessment carried out in accordance with section 32 of the Act and the underlying regulations. d. Applicants are also required to consent to the above information gathered as part of the Safety Check to be shared with a host institution for the purposes of a practicum placement. <p>1.5 Whakaurunga Reo Pākehā English Language Admission Requirements All applicants must provide evidence that they have the necessary English language proficiency required for the Programme as demonstrated by the equivalence of the requirements for English or Literacy as described in 1.1 General Admission Requirements;</p> <p>International applicants and any Domestic applicant for whom English, Māori or NZ Sign is not their first language must also provide evidence that they have the necessary English language proficiency required for the Programme as demonstrated by an overall IELTS (Academic) score of at least 6.5, with no band score lower than 6.0; or a TOEFL score of 575; or an equivalent.</p>
<p>2. Paearu Kōwhiri Tukanga Selection Criteria & Process</p> <p><i>Selection Criteria and Processes comply with Unitec’s Admission Requirements Guidelines.</i></p>	<p>2.1 Paearu Kōwhiri Selection Criteria When the number of eligible applicants for admission exceeds the number of places available, the following selection criteria will be applied:</p> <ol style="list-style-type: none"> a. Demonstrate academic achievement in excess of the admission requirements b. Demonstrate suitability for Medical Imaging as stated in a confidential reference preferably from either an employer or a school principal; c. Have previous life experience appropriate to Medical Imaging d. Demonstrate knowledge of Medical Imaging and motivation to work in the profession e. Demonstrate academic achievement in science subjects preferably physics, mathematics and biology. <p>Applicants who meet the maximum number of listed criteria will be the preferred candidates</p> <p>2.2 Tukanga Kōwhiri Selection Process Selection will be made by Unitec staff members with the delegated authority to offer places to applicants. These staff members will select students on the basis of written information supplied on the enrolment form. At the discretion of the staff members, an interview (face-to-face or electronic) may be required. A list of delegated staff members is maintained by the Programme Academic Quality Committee (PAQC) responsible for the programme.</p>
<p>3. Ngā Ture Hei Whakawhiwhi</p>	<p>3.1 Whakaemi Tūtukitanga Credit Accumulation</p>

<p>Tohu Mātauranga Requirements for the Award of the Programme</p> <p><i>Requirements comply with Unitec's Programme Completion and Awards Policy and associated procedure.</i></p>	<p>To be awarded the Bachelor of Health Science (Medical Imaging), a student must successfully complete a minimum of 360 credits in the pattern set out in Table 1 from the courses set out in Table 2 and meet the clinical requirements set out in 3.1.1.</p> <p>Table 1: Credit Requirements for Bachelor of Health Science (Medical Imaging)</p> <table border="1"> <thead> <tr> <th>Level</th> <th>Compulsory Credits</th> <th>Elective Credits</th> <th>Total Credits</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>105</td> <td></td> <td>105</td> </tr> <tr> <td>6</td> <td>135</td> <td></td> <td>135</td> </tr> <tr> <td>7</td> <td>120</td> <td></td> <td>120</td> </tr> <tr> <td></td> <td></td> <td></td> <td>360</td> </tr> </tbody> </table> <p>3.1.1 Clinical Requirements Clinical experience required for the degree is included and assessed in the clinical practice courses. The assessment for these courses is competency based. Students must achieve the specified pass grade in these courses to be awarded the Qualification.</p>	Level	Compulsory Credits	Elective Credits	Total Credits	5	105		105	6	135		135	7	120		120				360
Level	Compulsory Credits	Elective Credits	Total Credits																		
5	105		105																		
6	135		135																		
7	120		120																		
			360																		

Table 2: Course Details – Bachelor of Health Science (Medical Imaging)

All courses are Compulsory.

Course No	Course Name	Credits	Pre- requisites	Co-requisites	Restrictions
Level 5					
HEAL5250	Clinical Practice 1	15	HEAL5256 & First Aid Certificate	HEAL6256	
HEAL5251	Structural Osteology and Arthrology	15	HEAL5421		
HEAL5253	Imaging Science I	15	HEAL5255		
HEAL5254	Professional Practice 1	15			
HEAL5255	Radiation Physics	15			
HEAL5256	Radiographic Imaging I	15			
HEAL5421	Anatomy and Physiology	15			
Level 6					
HEAL6250	Anatomy II	15	HEAL 5251		
HEAL6252	Imaging Science II	15	HEAL5253		
HEAL6253	Pathology	15	HEAL5251		
HEAL6254	Professional Practice II	15	HEAL5254		
HEAL6255	Radiation Protection	15			
HEAL6256	Radiographic Imaging II	15	HEAL5256	HEAL5250	
HEAL6257	Clinical Practice II	45	HEAL5256 & HEAL6256		
Level 7					
HEAL7173	Principles of Image Interpretation	15	HEAL6256 & HEAL6253 & HEAL6250		HEAL7150
HEAL7174	Principles of Research	15			HEAL7158
HEAL7175	Specialist Applications	30	HEAL6252		
HEAL7177	Radiographic Pathology	15	HEAL6253		
HEAL7178	Clinical Practice III	45	HEAL6251 or HEAL6257		
Transition Courses see Section 8 below					
HEAL6171	Special Topic	15			

	<p>3.2 Mahi Waehanga Pāhekoheko Integrated and Work-based components See 3.1.1 for Clinical requirements</p> <p>3.3 Mahi Akoranga I A Wāhanga Course Load per Semester The normal full-time course load is 60 credits per semester, or 75 credits with the approval of the relevant academic authority.</p> <p>3.4 Whakaurunga Takiwā Enrolment Periods The normal enrolment period is three years (full-time study).</p> <ul style="list-style-type: none"> • It is at the discretion of the Clinical Manager of the relevant radiology department as to whether a student's clinical placement can be extended beyond this time. • Students who are prevented by ill health, or other cause, from completing the programme requirements within the maximum period of enrolment, the relevant academic authority may approve suspension of enrolment for up to a maximum of 12 months. • The Relevant Academic Authority will only grant continuation of clinical access to students who successfully complete relevant prior courses <p>The maximum period to complete this Programme is 5 years unless an extension has been approved by the relevant Academic Authority</p> <p>3.5 Whakawhiwhi Tāpiripiri Additional Awards</p> <p>3.5.1 Senior Scholar Award To be eligible for consideration to receive a Senior Scholar Award a student must have:</p> <ol style="list-style-type: none"> a. achieved a cumulative Grade Point Average (GPA) of 8.0 (there is no rounding) or better across all degree courses for which s/he has been assessed in the programme; and b. achieved at least 2/3 of the total credits for the degree through enrolment in Unitec courses (i.e. have achieved no more than 1/3 of the credits by cross credits from another institution or by the assessment of prior learning).
<p>4. Tūtukitanga Whakamihī Credit Recognition</p> <p><i>Credit Recognition complies with Unitec's Assessment, Moderation and Grades Policy and associated procedure.</i></p>	<p>4.1 Whakawhiti Tūtukitanga Cross Credit Credits will not be awarded for successful study that took place more than 5 years prior to the date of first enrolment in the programme.</p> <ol style="list-style-type: none"> a. A student may be awarded credits or exemptions in recognition of successful equivalent study, at the same or a higher level in the context of another programme. b. The credit recognition may be: <ol style="list-style-type: none"> i. specified, where there is direct equivalence of the learning outcomes of a completed course and a course in the programme; or ii. unspecified, where the previous study has taken place in a programme with a similar philosophy but there is no exact match in the programme's courses. c. Cross credits will not be given for Clinical Placement courses. <p>4.2 Aromatawai Tōmua Assessment of Prior Learning (APL) Assessment of Prior Learning is available for all courses in this programme. APL decisions will be made on a case-by-case basis under the Unitec Assessment of Prior Learning Procedure. APL is not available for Clinical Placement courses.</p>
<p>5. Waeture Aromatawai Assessment Regulations</p> <p><i>Assessment Regulations comply with Unitec's Assessment, Moderation and</i></p>	<p>5.1 Paparahi Aromatawai Assessment Basis</p> <ol style="list-style-type: none"> a. Assessment in this programme uses an 11-point achievement based system for courses as detailed in Table 3a below; and b. Assessment in clinical courses uses competency-based grading scales for courses as detailed in Table 3b below. <p>Students must obtain at least 50% overall score in any achievement-based course and achieve all of the outcomes in competency-based assessment in order to pass that course.</p> <p>5.2 Ākoranga Taumata Course grades</p>

Grades Policy and associated procedure.

Course grades will be determined by the mathematical aggregation of weighted assessment marks and reported according to the following scales. Participants must obtain at least 50% overall score in order to pass achievement-based assessment, unless specified in the course descriptors.

Table 3a: Achievement based 11-point assessment system

Grade	Meaning	Credits Earned	Score Range
A+	Distinction	Credits Earned	90 – 100
A	Distinction	Credits Earned	85 – 89
A-	Distinction	Credits Earned	80 – 84
B+	Merit	Credits Earned	75 – 79
B	Merit	Credits Earned	70 – 74
B-	Merit	Credits Earned	65 – 69
C+	Pass	Credits Earned	60 – 64
C	Pass	Credits Earned	55 – 59
C-	Pass	Credits Earned	50 – 54
D	Fail	No Credits Earned	40 – 49
E	Fail	No Credits Earned	0 – 39

Clinical Courses

Clinical course grades will be determined according to the following criteria. Participants must achieve all of the outcomes in order to pass competency-based assessment.

Table 3 (a or b) Competency based 3-point assessment system

Grade	Meaning	Result
M	Merit Pass	Credits Earned
P	Pass	Credits Earned
NC	Not Yet Competent	No Credits Earned

5.3 Paearu Taumata | Grade Criteria

Students may be awarded one of the following grades for a course:

Table 4: Grade Criteria

Grade	Meaning	Criteria
CR	Credit Recognition	The student has applied for and been awarded a credit recognition from another qualification
CTG	Continuing	The Course runs for more than one semester and the final Summative Assessment has not yet occurred. No Credits earned
DEF	Deferred	The student has approval to complete a Course Assessment beyond the schedule date. Unless an exception has been approved, any Deferred Grade remaining on a student’s record beyond a duration equal to that of the original course will be changed to the grade to which the Student would otherwise be entitled. No Credits earned.
DNC	Did not Complete	The grade DNC (Did Not Complete) is recorded if a student has either withdrawn after 75% of the scheduled Course duration; or not attempted a compulsory item of Assessment within a Course. No Credits earned.
ES	Student Exchange	The Student has completed an approved inter-institutional exchange and it is not appropriate for another grade to be awarded. No Credits earned.
NGA	No Grade Associated	Course assessment and reporting of results are not required for this course or are carried out by an external agency. No Credits earned

	R	Restricted Pass	The student has been awarded a restricted pass subject to Relevant clause in this schedule. Credits earned.
	W	Withdrawn	The student withdraws from a Course after 10% of the scheduled Course duration and up to, or at, the date at which 75% of the scheduled Course has passed. No credits earned.
	#	Estimated Grade	If any portion of Summative Assessment has been estimated, the final grade will be an estimated grade, and annotated “#” on the Student’s Academic Record.
<p>6. Aromatawai Mahinga Assessment Procedures</p> <p><i>Assessment Procedures comply with Unitec’s Assessment Moderation and Grades Policy and associated procedure.</i></p>	<p>6.1 Ākoranga Aromatawai Course Assessment Courses employ both formative and summative assessment activities. Formative assessments do not contribute to the final grade for a given course. All summative assessment elements are compulsory unless otherwise approved and noted in course information.</p> <p>Students must attempt all compulsory assessment activities in order to pass and receive credit for any course. Students who do not attempt a compulsory item of assessment may be awarded a ‘Did Not Complete’(DNC) for the whole course and may not earn any credits.</p> <p>6.2 Aromatawai Roto Te Reo Assessment in Te Reo All students have the right to submit any summative assessment task in Te reo Māori. The process for submission of summative assessment work in Te reo Māori is governed by the Unitec Assessment in Te Reo Māori procedure and detailed in course material.</p> <p>6.3 Tāpaetanga Tōmuri Submission and late submission of work</p> <ol style="list-style-type: none"> The due dates for all summative assessment work will be notified at the commencement of each course. Any assessment that is submitted late (and does not have a prior approved extension) will be penalised by a deduction of 10% per day of the participants assignment mark, up to five (5) days, inclusive of weekends. Applications for extensions must be made by according to procedure noted in Student Handbooks and course documentation. Any extension will be carried out within a specified time period as agreed with the relevant academic authority and no further extensions will be granted. No assessment will be accepted five (5) days (inclusive of weekends) after the due date. If the assessment is not compulsory, the participants will receive a ‘zero’ grade for that assessment. If the assessment is compulsory, then the participants will receive a Did Not Complete (DNC) grade for the entire course. <p>6.4 Whakamātautau Anō Resubmission or Reassessment A student may be granted permission to undertake a resubmission/reassessment for a failed assessment item within a course at the discretion of relevant academic authority and with the following conditions:</p> <ol style="list-style-type: none"> only one resubmission of the failed assessment per course an assessment item may not be re-attempted more than once; the re-sit and/or resubmission date will be determined by the designated academic staff member or delegated committee any approved resubmission/reassessment will be carried out within a specified time period as agreed with the relevant academic authority; the maximum grade for any resubmission/reassessment of an assessment is the lowest pass grade; Eligible students may only re-sit/re-submit following a failed examination on payment of the published fee. <p>6.5 Āhuratanga Aromatawai Motuhake Affected Performance Consideration A student may apply for Affected Performance Consideration (APC) if:</p>		

- a. The student is unable to attend an examination, compulsory assessment or fixed time and place assessment activity due to illness, injury, bereavement or other critical circumstances
 - b. The student's preparation for, or performance in an examination or any summative assessment has been seriously impaired due to circumstances beyond their control
- Applications for APC are made by a student within 5 working days of the affected assessment event. Decisions to approve an APC and to apply any remedy are made according to the Assessment and Grading Procedures and Regulations.

6.6 Pāhi Rāhui | Restricted Pass

A restricted pass may be awarded in a course which was narrowly failed and where there is ample evidence that marginal failure is compensated by good overall performance.

- a. A restricted pass is awarded at the discretion of the relevant academic authority and may not be applied for directly by a student.
- b. A restricted pass is not available for any course which is a pre-requisites or co-requisites for any other course, or for any course at Level 7.
- c. A restricted pass will not be granted for any clinical practice course.
- d. The relevant academic authority may, at their discretion, use a restricted pass to:
 - i. set conditions for future performance in other courses
 - ii. prevent a student from using a restricted pass to meet the prerequisite requirements of another course.
- e. A student may decline the award of a restricted pass by notifying the relevant academic authority in writing not later than 20 working days from notification of the results.

6.7 Tuaruatanga | Repeating Courses

Students who are repeating a Level 1–8 course would normally be required to submit all assessment items. In some cases, with the prior approval of the relevant academic authority, students may not be required to repeat an equivalent assessment item that they had previously passed. This should be negotiated within the first two weeks of the commencement of the course and will specify any course grade that will be carried over.

Students may enrol and repeat a course that they have failed only once. Permission to enrol for a third time is governed by Exclusion provisions below.

6.8 Whakakorenga | Exclusions

No student will be allowed to enrol in any course more than twice unless there are exceptional circumstances approved by the relevant academic authority.

- a. Any Student who fails to achieve at least 50 per cent of the credits that he or she is enrolled in in any 12-month period may be excluded by the relevant Academic Authority from re-enrolling in any further courses. The decision whether students can re-enrol in further courses will be based on a student's likelihood of succeeding in further study and will be made by the relevant Head of School.
- b. When calculating the 12-month period in a. above, Unitec reserves the right to include any relevant time spent by the Student studying at another tertiary institution.
- c. A Student who has not achieved a Pass Grade in the same Course on two occasions shall not be enrolled again for that Course except with the permission of the relevant Academic Authority.
- d. The relevant Academic Authority will advise the Student in writing of their decision, and the reasons for such decision, and any orders made.

6.9 Examination Regulations

All formal examinations in this programme are governed by the Unitec Examinations Regulations;

6.10 Tono Pira | Appeals

Students may appeal the decisions made under these regulations in accordance with the Student Appeal Procedure.

7. Whakaritenga Whānui |

7.1 Whakamāramatanga ā-kaupapa | Definition of Terms

In these regulations, unless the context otherwise requires, the following definitions shall apply:

General Provisions	<ul style="list-style-type: none"> • ‘Relevant academic authority’ refers to an individual or role holder, or in some cases a committee, who have been delegated the authority to make a decision within a specific circumstance. A schedule of the various relevant academic authority delegations is maintained by the Programme Academic Quality Committee responsible for the Programme. <p>7.2 Ētahi Atu Whakaritenga Other provisions not covered elsewhere</p> <p>7.1 Indemnity insurance Students must carry indemnity insurance against any claims that may arise out of clinical practice.</p> <p>7.2 Legislative and professional requirements Students are expected to work within appropriate and current legislation and professional requirements relating to health, including the Privacy Act, Health and Disability Commissioners Act, Protection of Personal Rights and Property Act, Accident Rehabilitation and Compensation Insurance Act, Health and Safety at Work Act, Radiation Protection Act, Radiation Safety Regulations, and BHS (MI) Code of Conduct.</p>
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8 Āhuratanga Tauwhirowhiro Ritenga | Transitional Arrangements

8.1 Entry for Registered Medical Imaging Technologists

Registered Medical Imaging Technologists (Diagnostic) admitted to the degree will be entitled to apply for credits recognition. Credit recognition may be granted under the following three circumstances, on the provisions of appropriate evidence:

- Education gained from a programme leading to registration as a diagnostic Medical Imaging Technologist;
- Experience as a diagnostic Medical Imaging Technologist since registration;
- Approved formal education undertaken after registration.

The number and level of credits will be influenced by such factors as date of qualification, duration and content of the programme leading to registration, post registration medical imaging experience, post registration qualifications.

8.1.1 Graduates from programmes leading to registration as a Diagnostic Medical Imaging Technologist

- Graduates from programmes leading to registration as a Diagnostic Medical Imaging Technologist, may apply for credit for their programme of study to the maximum specified in Table 6.

Table 5: Maximum Credits Recognition

Table 5: Maximum Credits Recognition	
National Diploma In Medical Diagnostic Imaging	300
New Zealand Conjoint Board Diploma	240
Australasian Conjoint Board Diploma	240
Diploma of the College of Radiographers	240
Fijian School of Medicine, Diploma in Diagnostic Radiography	240
Fiji School of Medicine, Bachelor of Medical Imaging Science	285

- In the event a programme applicant does not hold a valid NZ MRTB practicing certificate, all applications for clinical practice related credit assessment will be declined.
- The applicants clinical ability will in turn be evaluated on the commencement of BHS (MI) programme study, this in the clinical setting. Based upon that evaluation the applicant will be required to enrol in an appropriate clinical course* either in year one, two or three of the programme. The enrolled student is then expected to progress incrementally through the remaining clinical courses.
- Upon finally completing course HEAL7178 Clinical Practice Three the student will become eligible to apply for any remaining clinical course Credit recognition.

* The determination of an ‘appropriate clinical course’ will be made by the relevant Academic Authority and draw upon clinical evaluation feedback and a recommendation from the BHS Clinical Co-ordinator.

8.2 Post-registration clinical experience

Diagnostic Medical Imaging Technologists with clinical experience gained since registration may apply for further unspecified credit. The following will be used as a guide to gaining this credit:

Table 7: Work Experience

Work Experience ¹	Maximum Unspecified Credits Recognition
2 - 4 years full time equivalent	15

5+ years full time equivalent

30

¹ Work experience must have been gained within the last 10 years

8.3 Courses covered by Transition Regulations

The following courses are available to students who for any reason require accumulation of further credits. Enrolment in these courses will be managed on a case by case basis:

- HEAL6171 Special Topic

9. Regulation Version Control

Ver No.	Approved by	Date of Change	Effective from	Description of change
2.1	AACSC	19/07/2021	2021-Sem2	New format to aligned with Type 1 change
2.2	AACSC	31/01/2023	2023-Sem1	Change to section 5.2 course grade requirements
2.3		11/03/2024	2024-Sem1	Administrative error 6.4 (a) only one resubmission of the failed assessment task per course;