BACHELOR OF DIAGNOSTIC RADIOGRAPHY (B9M01Q)

Work integrated learning (WIL) is incorporated into the employment contract with the respective clinical training centre.

Purpose

The purpose of the qualification is to develop a competent professional, who has thorough grounding in the knowledge and skills required for Diagnostic Radiography and who has gained experience in applying such knowledge and skills in accredited workplaces.

Successful completion of this qualification will entitle the student to register with the Health Professions Council of South Africa (HPCSA) as a Diagnostic Radiographer.

Outcomes

After completion of the programme, the student will be able to:

1. Perform routine and specialized radiographic procedures to produce images of diagnostic quality.
2. Access, organize and present information applicable to the radiography context in order to record, retrieve and communicate patient data.
3. Evaluate the quality of routine and specialized radiographic images and perform image interpretation to identify normal and abnormal appearances.
4. Plan, develop and apply total quality management appropriate to the diagnostic radiography context.
5. Perform safe and effective patient care in accordance with the patient’s needs and departmental protocol to provide a quality service and to maintain the welfare of the patient.
6. Apply the principles of human rights, ethics and relevant medical law which ensure the well-being of the patient.
7. Apply the principles, specific knowledge, skills and values related to one of the chosen electives as listed.
8. Conduct research.

Rules of access and admission requirements

A Senior Certificate or an equivalent qualification at an equivalent standard as determined by a Faculty Status Committee, with the following Subjects:

- Mathematics with a higher Grade D or standard grade C symbol.
- Physical Science with a higher grade D or standard grade C symbol and
- Biology with a higher grade D or standard grade C symbol or
- Physiology with a higher grade D or standard grade C symbol.
A minimum M-score of 13 is required with a University Exemption.

or

A National Senior Certificate - APS Score with minimum requirements as shown below:

(Exclude Life Orientation when calculating APS)

<table>
<thead>
<tr>
<th>Minimum APS</th>
<th>Language of teaching and learning (English)</th>
<th>Mathematics</th>
<th>Mathematical Literacy</th>
<th>Life Sciences</th>
<th>Physical Sciences</th>
<th>Additional Subject 1</th>
<th>Additional Subject 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>27 with Mathematics</td>
<td>5</td>
<td>4</td>
<td>6</td>
<td>5*</td>
<td>4*</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>29 with Mathematical Literacy</td>
<td>5</td>
<td>4</td>
<td>6</td>
<td>5*</td>
<td>4*</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

* The applicant must have either Life Sciences or Physical Sciences, or both.

NB:
- Academic merit will take precedence, therefore preference will be given to applicants who have Mathematics, Life Sciences and Physical Science.
- A level 3 would be accepted for either the 1 other recognized / official South African language or the 1 other subject from group B provided all other criteria are met.
BACHELOR OF DIAGNOSTIC ULTRASOUND (B9M03Q)

Work integrated learning (WIL) is incorporated into the employment contract with the respective clinical training centre.

Purpose

The purpose of the qualification is to develop a competent professional, who has a thorough knowledge and the skills required for the profession of Diagnostic Ultrasound and who has gained experience in applying such knowledge and skills in accredited workplaces.

Successful completion of this qualification will entitle the student to register with the Health Professions Council of South Africa (HPCSA) as a Sonographer.

Outcomes

After completion of the programme, the student will be able to:

1. Demonstrate the knowledge of natural and life sciences and pathology that enables application in the clinical field.
2. Assess and perform patient care in a manner which ensures that the patient's welfare is maintained.
3. Apply the principles of human rights, ethics and medical law which ensure the well-being of the patient.
4. Perform the sonographic protocols and procedures to produce optimum quality images in the specified areas of diagnostic ultrasound.
5. Critically assess the sonographic images and apply pattern recognition to determine aberrant appearances in keeping with pathology.
6. Apply the ultrasound specific measures which ensure that the health and safety of patients, self and colleagues are maintained.
7. Plan, develop and apply total quality management appropriate to the sonographic context.
8. Demonstrate research skills and foster a research climate in Ultrasound imaging.
Rules of access and admission requirements

A Senior Certificate or an equivalent qualification at an equivalent standard as determined by a Faculty Status Committee, with the following Subjects:

- Mathematics with a higher Grade D or standard grade C symbol.
- Physical Science with a higher grade D or standard grade C symbol and
- Biology with a higher grade D or standard grade C symbol or
- Physiology with a higher grade D or standard grade C symbol.

A minimum M-score of 13 is required with a University Exemption.

or

National Senior Certificate (NSC) - APS Score with minimum requirements as shown below:

<table>
<thead>
<tr>
<th>Minimum APS</th>
<th>Language of teaching and learning (English)</th>
<th>Mathematics</th>
<th>Mathematical Literacy</th>
<th>Life Sciences</th>
<th>Physical Sciences</th>
<th>Additional Subject 1</th>
<th>Additional Subject 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>27 with Mathematics 29 with Mathematical Literacy</td>
<td>5</td>
<td>4</td>
<td>6</td>
<td>5*</td>
<td>4*</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

* The applicant must have either Life Sciences or Physical Sciences, or both.

NB:

- Academic merit will take precedence, therefore preference will be given to applicants who have Mathematics, Life Sciences and Physical Science.
- A level 3 would be accepted for either the 1 other recognized / official South African language or the 1 other subject from group B provided all other criteria are met.
Work integrated learning (WIL) is incorporated into the employment contract with the respective clinical training centre.

Purpose

The purpose of the qualification is to develop a competent professional nuclear medicine technologist who has thorough grounding in the knowledge and skills required for Nuclear Medicine Technology and who has gained experience in the application of such knowledge and skills in accredited workplaces.

Successful completion of this qualification will entitle the student to register with the Health Professions Council of South Africa (HPCSA) as a Nuclear Medicine Technologist.

Outcomes

After completion of the programme, the student will be able to:

1. Apply principles of human rights, ethics and relevant medical law to ensure the well-being of the patient.
2. Perform a range of conventional and specialized nuclear medicine imaging procedures in order to facilitate diagnosis and treatment of the patient.
3. Operate and ensure quality functioning of all nuclear medicine instrumentation to provide the best diagnostic capability of the instruments.
4. Function in a type 'B' radiopharmacy laboratory to safely dispense radiopharmaceuticals for nuclear medicine imaging procedures.
5. Perform a range of in-vitro and in-vivo non-imaging nuclear medicine procedures in a type 'C' radiopharmacy laboratory.
6. Assure quality of all aspects of a nuclear medicine investigation and the service provided.
7. Plan, develop and apply total quality management appropriate to the nuclear medicine context.
8. Demonstrate research skills and foster a research climate in nuclear medicine.
9. Apply the principles, specific knowledge, skills and values related to the chosen elective subject.

Rules of access and admission requirements

A Senior Certificate or an equivalent qualification at an equivalent standard as determined by a Faculty Status Committee, with the following Subjects:

- Mathematics with a higher Grade D or standard grade C symbol.
- Physical Science with a higher grade D or standard grade C symbol and
- Biology with a higher grade D or standard grade C symbol or
• Physiology with a higher grade D or standard grade C symbol.

A minimum M-score of 13 is required with a University Exemption.

or

A National Senior Certificate - APS Score with minimum requirements as shown below:

(Exclude Life Orientation when calculating APS)

<table>
<thead>
<tr>
<th>Minimum APS</th>
<th>Language of teaching and learning (English)</th>
<th>Mathematics</th>
<th>Mathematical Literacy</th>
<th>Life Sciences</th>
<th>Physical Sciences</th>
<th>Additional Subject 1</th>
<th>Additional Subject 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>27 with Mathematics</td>
<td>5</td>
<td>4</td>
<td>6</td>
<td>5*</td>
<td>4*</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>29 with Mathematical Literacy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* The applicant must have either Life Sciences or Physical Sciences, or both.

NB:

• Academic merit will take precedence, therefore preference will be given to applicants who have Mathematics, Life Sciences and Physical Science.
• A level 3 would be accepted for either the 1 other recognized / official South African language or the 1 other subject from group B provided all other criteria are met.
Radiation Therapist.

Outcomes

After completion of the programme, the student will be able to:

1. Apply the principles of human rights, ethics and relevant medical law which ensure the well-being of the patient.
2. Demonstrate a critical understanding and application of quality assurance and radiation protection in a Radiation Therapy division.
3. Apply scientific knowledge and technical skills to perform radiation oncology laboratory techniques and procedures.
5. Perform radiotherapy procedures competently to ensure optimal treatment planning.
6. Apply scientific knowledge and professional skills to perform therapeutic procedures for accurate delivery of the radiation treatment prescribed.
7. Plan, develop and apply total quality management appropriate to the radiation therapy context.
8. Demonstrate research skills and foster a research climate in radiation therapy.
9. Apply the principles, specific knowledge, skills and values related to the chosen elective subject.
10.

Rules of access and admission requirements

A Senior Certificate or an equivalent qualification at an equivalent standard as determined by a Faculty Status Committee, with the following Subjects:

- Mathematics with a higher Grade D or standard grade C symbol.
- Physical Science with a higher grade D or standard grade C symbol and
- Biology with a higher grade D or standard grade C symbol or
- Physiology with a higher grade D or standard grade C symbol.

A minimum M-score of 13 is required with a University Exemption.

or

National Senior Certificate (NSC) - APS Score with minimum requirements as shown below:
<table>
<thead>
<tr>
<th>Minimum APS</th>
<th>Language of teaching and learning (English)</th>
<th>Mathematics</th>
<th>Mathematical Literacy</th>
<th>Life Sciences</th>
<th>Physical Sciences</th>
<th>Additional Subject 1</th>
<th>Additional Subject 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>27 with Mathematics 29 with Mathematical Literacy</td>
<td>5</td>
<td>4</td>
<td>6</td>
<td>5*</td>
<td>4*</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

* The applicant must have either Life Sciences or Physical Sciences, or both.

**NB:**
- Academic merit will take precedence, therefore preference will be given to applicants who have Mathematics, Life Sciences and Physical Science.
- A level 3 would be accepted for either the 1 other recognized / official South African language or the 1 other subject from group B provided all other criteria are met.