

COURSES IN RENAL PHYSIOLOGY

LEVEL 7, SEMESTER 2, 2023

The Faculty of Health and Environmental Sciences at AUT offers educational pathways across many clinical areas of practice. From Semester 2 of 2023, individual courses relating to renal physiology are being offered to small groups of students.

The logo for AUT (Auckland University of Technology) is displayed in a large, white, outlined font on a black rectangular background. The background of the entire page features a green geometric pattern of overlapping squares and rectangles, with some squares containing white arrows pointing in various directions.

Renal Science (HEAL715) 15 points

Course overview

Introduces the science, including biochemistry and physics, that informs renal healthcare.

What can you expect to learn?

- Anatomy and physiology of the kidney
- Assessment of the renal structure and function
- Diagnostic tests and investigations
- Fluid and electrolyte balance/imbalance
- Physics in dialysis
- Chemistry in dialysis
- Acid base balance
- Calcium, phosphate, vitamin D, aluminium, parathyroid glands and bones
- Pathophysiology of the major kidney diseases
- Acute Kidney Injury (AKI)
- Chronic Kidney Disease (CKD)
- Systemic consequences of kidney diseases and clinical manifestations

What is the assessment?

Examination and clinical case studies.

Format

Blended learning approaches will be used. In Semester 2, 2023 this will involve online sessions (which may be accessed synchronously and asynchronously) and on-campus sessions across 10 teaching weeks. The course includes a one-day visit to a laboratory.

Fees

\$1,020 for a domestic student (includes the tuition fee, student services levy and GST). A number of scholarship opportunities are available for students – some of these are linked to required periods of practice with Te Whatu Ora on completion.

Renal Health, Culture and Context (HEAL716) 15 points

Course overview

Explores factors that contribute to renal disease and their context including social, cultural and demographic influences. Considers holistic and interprofessional approaches to wellbeing and support.

What can you expect to learn?

- Overview of nutritional status in chronic kidney disease
- Nutritional care for patients receiving dialysis
- Multi and interprofessional teams' expertise and contribution to renal care
- Special populations of renal patients
- Psychosocial, spiritual, and cultural support for dialysis patients and whānau
- Models and theoretical basis for practice
- Integrated care in primary and secondary settings

What is the assessment?

Clinical case studies.

Format

Blended learning approaches will be used. In Semester 2, 2023 this will involve online sessions (which may be accessed synchronously and asynchronously).

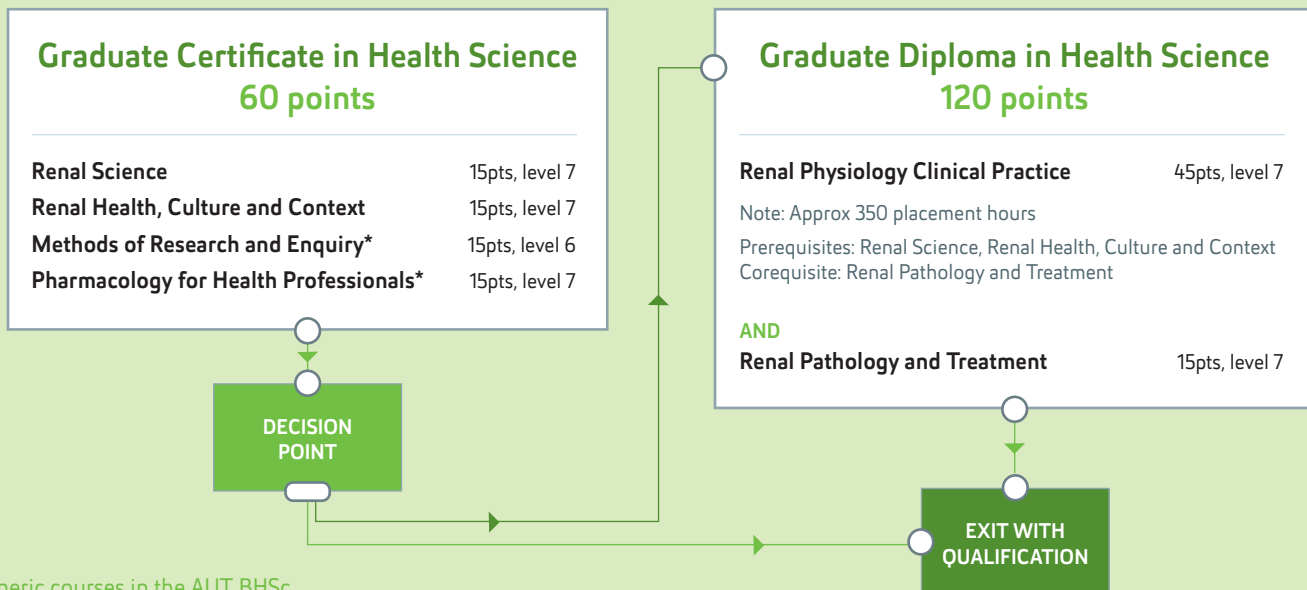
Fees

\$1,020 for a domestic student (includes the tuition fee, student services levy and GST). A number of scholarship opportunities are available for students – some of these are linked to required periods of practice in DHBs on completion.

Qualification

The courses are included in the Bachelor of Health Science (BHSc) and also the Graduate Diploma (Grad Dip) and Graduate Certificate (Grad Cert) in Health Science. Students who meet the requirements to enrol in these qualifications may credit any relevant courses they have achieved as outlined in the regulations.

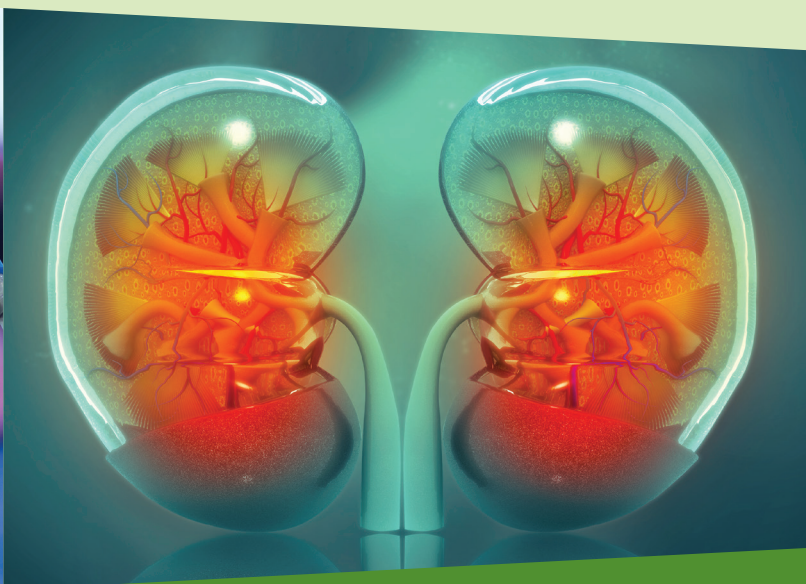
Enrolment pathways for students wanting to study renal physiology courses



* Generic courses in the AUT BHSc

Two of the renal physiology courses will be offered in Semester 2, 2023 (subject to enrolments). These are Renal Science; and Renal Health, Culture and Context. Each of these courses involves approximately 150 hours of learning including on-campus sessions on North Campus. The additional two courses will be offered in Semester 1, 2024.

Please contact Debra Spinetto – phone (09) 921 9735 or email fhes.enquiries@aut.ac.nz for advice on enrolment pathways. The clinically-based courses will include experience in clinical renal dialysis settings. These courses are available to students currently enrolled in related AUT programmes such as the BHSc as well as those who are not currently studying but interested in working in renal dialysis settings.



Please contact Debra Spinetto for advice on enrolment pathways:
Phone: (09) 921 9735 Email: fhes.enquiries@aut.ac.nz