



NZ Certificate in Study and Career Preparation (Level 4)

Nursing Maths

FSTU 3913

Course Guide

Semester 1 2022



Welcome to Nursing Maths FSTU 3913

Haere mai, Talofa lava, Malo e lelei, Bula

Helpful Information

Ask Questions

- If you are unsure about anything, please ask your tutor. We love questions! There is no such thing as a silly question

Cell phones

- Keep phones on silent and not on your desk. Research is showing that distraction from cell phones is a huge reason for learner under achievement.
- Do not spend time on them during class unless instructed to do so.



Communication

- If you cannot make it to class or if you are going to be late for any reason, please email your tutor.
- If you miss a class, **you will need to** catch up. Please see your classmates first to see what was covered in class and what tasks you need to complete in your own time, or ask your lecturer. Additional help is also available from a Learning Advisor and from the course Moodle site. **You will need to** catch up to be successful.

Parking

- The parking building at Henderson Library/Unitec campus (14 Trading Place, Henderson) has \$3.00 all day parking for students who show an ID card. You need to be early, as the carpark can fill up. Pay and display carparks and free carparks are also available nearby. The carparks are closely monitored and cars will be clamped and/or towed.
- Using public transport and/or cycling is encouraged.



Free Shuttle and Public Transport

- Links for information on getting yourself to Unitec
 - free Unitec shuttle services at <https://www.unitec.ac.nz/current-students/on-campus/shuttle-bus>
 - Plan your travel on public transport at <https://at.govt.nz/bus-train-ferry/>
 - Remember to get an **Auckland Transport "AT Tertiary ID sticker"** attached to your ID card and **follow the steps on the AT website to get discounted** fares with a HOP card.



Smoking

- We are a non-smoking campus. If you choose to smoke, you must go off site.



Security

- **Always take your phone, money and any other valuables with you when you leave the classroom. Unitec Security can be contacted on 0800 10 95 90**

Studylink & Fees Free Support Sessions

Support with completing Fees Free applications or Studylink applications is available through Student Support by attending the drop-in sessions (session times available from the AskMe desk or your lecturer) or by making an appointment by emailing studentsupport@unitec.ac.nz

Nursing Maths FSTU 3913

Programme Coordinator Contact Details

Name: Carly Van Winkel

Email: cvanwinkel@unitec.ac.nz

Phone: 892 7627

Lecturer & Course Coordinator Contact Details

Name: Debbie Loveridge

Email: dloveridge@unitec.ac.nz

Phone: 09 892 8371

Room: 510 -3042

Lecturer Contact Details

Name: Cheryl Henderson

Email:

chenderson2@unitec.ac.nz

Phone: 09 892 7694

Room: 170 -1028

Course Aim

This course is designed to extend students' confidence and understanding of mathematics used in nursing contexts and to use mathematical thinking without a calculator in the solving and communication of contextualised problems.

Course Learning Outcomes:

1. Demonstrate mathematical thinking with proportional reasoning and apply strategies to solve mathematical problems including drug calculations.
2. Interpret and apply mathematical thinking to demonstrate an understanding of problems that occur in the nursing context.
3. Use appropriate mathematical language and conventions to communicate mathematical ideas in a variety of ways.
4. Develop strategies to manage own learning to achieve successful outcomes in individual and group tasks.

Course Outline

Topic 1: Calculations and estimations

Topic 2: Measurement, Fractions, Decimals, Percentages

Topic 3: Reading Tables and Statistics

Topic 4: Ratios, Drug calculations and Infusions

Stationery requirements

- Use a maths exercise book (1J quad book or similar) Any A4 notebook is more useful than a refill pad. You will also be given workbooks for each topic. A clear file folder is a useful way to store extra handouts and course information.
- Pen, pencil eraser and ruler required.
- Apart from Assignment 3, this course **does not** use calculators.

Homework

Practising new learning and revising are essential for building confidence and success in mathematics. It is expected that you will spend at least 5 to 6 hours a week working independently on your maths, in addition to the 5 hours a week of class time.

Allocate these hours of independent work to ensure that each week you are:

- Working through homework exercises related to each class.
- Revising previous work: Look back at previous weeks' exercises and re-do some to remind yourself of what you have forgotten.
- Practising your times tables and basic drills (use the drills given in the workbooks to help with this).

Zoom classes

Where the lecturer needs to isolate, or if a large number of class members are isolating, then classes will be held on zoom. It is vital you keep check on your emails so you do not miss communications. When participating on zoom, out of respect for others please

- Have your video on as much as possible (you are welcome to use a virtual background to hide your home clutter!)
- Mute if there is unavoidable background noise
- Please arrive on time and be prepared and equipped to contribute and work just as you would in class

Attendance

For your success, and out of respect to your lecturer and fellow students, please aim to arrive at class 5-10 minutes before the start time. Please contact your lecturer by text or email if you have to miss a class. It is your responsibility to catch up on the work you have missed.

If you are needing to isolate, please keep in daily contact with your lecturer to keep up with what you are missing. In some cases you will be able to join the class by zoom. If you need to miss an assessment date, it is vital that you are in communication as you may be required to complete this at the same time as the class.

If you are unable to attend a test or meet an assignment due date, then you MUST apply to your lecturer for an extension by email on or before this due date. (Refer to the assessment section on Moodle). Any student who regularly misses class will be contacted by their lecturer, to discuss attendance. Continued non - attendance may result in a student being withdrawn from the course.

Your attendance is tracked on the attendance system called SEAtS. This attendance system requires you to download the SEAtS App on your phone. Instructions can be found at <https://www.unitec.ac.nz/current-students/study-support/class-attendance>

Moodle Site – Online Resources and Assessments

On the Nursing Maths FSTU 3913 Moodle site, you will find

- Course and Assessment Information
- An electronic copy of workbooks
- A direct link to Zoom classes
- Moodle quizzes assessments
- Links to exercises and powerpoints that are used in class
- Extra revision material and tutorials videos in each topic
- Copies of practice test questions
- Links to web-based resources, DIY Maths which gives useful additional learning and revision
- Experiences
- Access to tests and assignments and places to upload your work

Maths learning support

Maths help is available from the **Academic Development Lecturers**. Margaret Evans, maevans@unitec.ac.nz Lance Laulala llaulala@unitec.ac.nz and Richard Segedin (on Fridays only) rsegedin@unitec.ac.nz, can assist with maths and science via a zoom session. We strongly recommend that you make use of them on a regular basis.

Book an appointment online - Bookings can be for 1 person, or a group of classmates, You can book online using this link: <https://guides.unitec.ac.nz/labbookings/numeracy>

Web-based online maths resources can be another source of help:

Use the on-line maths learning activities found by visiting the UNITEC library link

<http://libguides.unitec.ac.nz/DIYmaths> .

There is also a link to DIY maths on the Maths Nursing Moodle page.

A useful website to fill the gaps of Maths you have forgotten: <https://www.khanacademy.org/math>

Some useful strategies can also be found at <https://pathwaysawarua.com/>

Textbook

The textbook used in this course is “Nursing Calculations” by John D. Gatford and Nicole Phillips, Elsevier/Churchill Press.

You do not need to purchase this book as there are Bridging Education copies are available for use in class. UNITEC library also has paperback and online copies available.

If you wish to purchase a copy it is available on line at:

- The Book Depository <http://www.bookdepository.com/search?searchTerm=nursing+calculations>
- Look for second hand older editions (just as good as the new ones) on Trade Me.

The Waitakere campus library has additional books covering drug calculations which you may find useful to refer to. These are shelved under the Dewey number 615.14.

Student Support

If you worried about your ability to succeed or you have other issues that might stop you from being a successful student, you can contact

- your lecturer
- Academic Development lecturers,
- Access4learning (supported learning)
- student well - being services (Te Puna Waiora), such as counselling services, and the medical centre, (including free nurse appointments)
- Refer to the Help section on your course Moodle page for more information

Key to Success

- Attend all classes on time
- Complete all homework and do extra revision
- Ask questions
- Hand in work on time
- Persevere
- Communicate with your lecturer before your course work becomes difficult to complete so a plan can be put in place to manage your circumstances
- Find like-minded people – choosing who you hang out with can make a huge difference to your final grade – find friends who will help you succeed!

We hope you have a successful semester. Please do not hesitate to ask any questions.

Kia kaha,
Debbie and Cheryl

