



## Prescription

The course introduces the fundamental topics of Mobile Computing. In particular, the course will emphasise the network and transport layers of wireless communication protocols and network infrastructure suitable for mobile personal systems (e.g. GSM, 3G, Mobile IP, etc). Key issues of mobility and disconnected operation with respect to mobile computing systems and quality of service issues in mobile personal systems will be covered and how applications handle node mobility and wireless communications will be explored.

## Course learning objectives

Students who pass this course should be able to:

1. Know how networks track mobile users and devices, i.e. the mobility management function of current and emerging networks, and be able to analyze and compare the degree of granularity in which mobile user/device tracking is done; (BE graduate attributes 3(a), 3(b))
2. Be able to apply the knowledge they have acquired to the design, implementation and validation of mobility management components as part of a larger system; (BE graduate attributes 3(a), 3(b), 3(c), 3(d))
3. Be able to apply the knowledge to the operation, deployment and management of mobile/wireless communications networks and relate to other relevant technologies, e.g. location and positioning; (BE graduate attributes 3(c), 3(d), 3(e), 3(f))
4. Be aware of standardization efforts and state-of-the-art research areas being pursued by academia and industry; (BE graduate attributes 3(d))
5. Be able to communicate mobility management and related issues, problems and solutions clearly and concisely. (BE graduate attributes 2(b))

## Withdrawal from Course

Withdrawal dates and process:

<https://www.victoria.ac.nz/students/study/course-additions-withdrawals>

## Lecturers

**Winston Seah (Coordinator)**

winston.seah@vuw.ac.nz 04 4635233 ext 8493

416 Alan MacDiarmid Building, Kelburn

## Teaching Format

During the trimester there will be two lectures and one tutorial per week.

# Student feedback

Student feedback on University courses may be found at:  
[www.cad.vuw.ac.nz/feedback/feedback\\_display.php](http://www.cad.vuw.ac.nz/feedback/feedback_display.php)

## Dates (trimester, teaching & break dates)

- Teaching: 04 March 2019 - 09 June 2019
- Break: 15 April 2019 - 28 April 2019
- Study period: 10 June 2019 - 13 June 2019
- Exam period: 14 June 2019 - 29 June 2019

## Class Times and Room Numbers

### 04 March 2019 - 14 April 2019

- **Tuesday** 14:10 - 15:00 – 105, Von Zedlitz, Kelburn
- **Wednesday** 14:10 - 15:00 – 105, Von Zedlitz, Kelburn
- **Thursday** 14:10 - 15:00 – 105, Von Zedlitz, Kelburn

### 29 April 2019 - 09 June 2019

- **Tuesday** 14:10 - 15:00 – 105, Von Zedlitz, Kelburn
- **Wednesday** 14:10 - 15:00 – 105, Von Zedlitz, Kelburn
- **Thursday** 14:10 - 15:00 – 105, Von Zedlitz, Kelburn

## Set Texts and Recommended Readings

### Required

There are no required texts for this offering.

## Mandatory Course Requirements

In addition to achieving an overall pass mark of at least 50%, students must:

- attempt the term test and gain at least a **C-** grade.
- submit the term paper according to the stated procedure.
- attempt the project and submit the project report.

*If you believe that exceptional circumstances may prevent you from meeting the mandatory course requirements, contact the Course Coordinator for advice as soon as possible.*

## Assessment

This course will be assessed through the following assessment:

Assessment Item	Due Date or Test Date	CLO(s)	Percentage
Project		CLO: 2,3,4,5	40%
Term Paper		CLO: 1,2,4,5	40%
Term Test		CLO: 1,4,5	20%

## Penalties

For every day late, 20% of marks obtained for the assignment/task/project will be deducted. All assignments are compulsory and students must submit a reasonable attempt. Cutoff date for submission of all term papers and project reports -- not later than 1 week after set deadline. No submission will be accepted after this deadline.

## Extensions

Requests for extension of deadline(s) must be made in writing (email) to the course coordinator, attaching any supporting document e.g. medical certificates.

## Submission & Return

All work is submitted through the ECS submission system, accessible through the course web pages. Marks and comments will be returned through the ECS marking system, also available through the course web pages.

## Marking Criteria

As specified in the assignment handouts.

## Peer Assessment

There will be no peer assessment. However, students will be asked to review their peers' term papers and provide feedback. Marks will be awarded for the peer review, as specified in the assignment handout.

## Required Equipment

Please refer to the ECS Wiki page for NWEN 404 at [https://ecs.victoria.ac.nz/Courses/NWEN404\\_2019T1/](https://ecs.victoria.ac.nz/Courses/NWEN404_2019T1/).

## Workload

In order to maintain satisfactory progress in NWEN 404, you should plan to spend an average of **10~12** hours per week on this paper. A plausible and approximate breakdown for these hours would be:

- Lectures and tutorials: 3
- Readings: 2~3
- Assignments: 5~6

## Teaching Plan

See: [https://ecs.victoria.ac.nz/Courses/NWEN404\\_2019T1/LectureSchedule](https://ecs.victoria.ac.nz/Courses/NWEN404_2019T1/LectureSchedule)

## Communication of Additional Information

Please refer to the ECS Wiki page for NWEN 404 at [https://ecs.victoria.ac.nz/Courses/NWEN404\\_2019T1/](https://ecs.victoria.ac.nz/Courses/NWEN404_2019T1/).

## Links to General Course Information

- Academic Integrity and Plagiarism: <https://www.victoria.ac.nz/students/study/exams/integrity-plagiarism>
- Academic Progress: <https://www.victoria.ac.nz/students/study/progress/academic-progress> (including restrictions and non-engagement)
- Dates and deadlines: <https://www.victoria.ac.nz/students/study/dates>
- Grades: <https://www.victoria.ac.nz/students/study/progress/grades>
- Special passes: Refer to the Assessment Handbook, at <https://www.victoria.ac.nz/documents/policy/staff-policy/assessment-handbook.pdf>
- Statutes and policies, e.g. Student Conduct Statute: <https://www.victoria.ac.nz/about/governance/strategy>
- Student support: <https://www.victoria.ac.nz/students/support>
- Students with disabilities: [https://www.victoria.ac.nz/st\\_services/disability/](https://www.victoria.ac.nz/st_services/disability/)
- Student Charter: <https://www.victoria.ac.nz/learning-teaching/learning-partnerships/student-charter>
- Terms and Conditions: <https://www.victoria.ac.nz/study/apply-enrol/terms-conditions/student-contract>
- Turnitin: <http://www.cad.vuw.ac.nz/wiki/index.php/Turnitin>
- University structure: <https://www.victoria.ac.nz/about/governance/structure>
- VUWSA: <http://www.vuwsa.org.nz>

**Offering CRN:** [18605](#)

**Points:** 15

**Prerequisites:** NWEN 302 and 30 further 300-level pts from (COMP, ECEN, NWEN, SWEN)

**Duration:** 04 March 2019 - 30 June 2019

**Starts:** Trimester 1

**Campus:** Kelburn