

# School of Engineering and Computer Science

Te Kura Mātai Pūkaha, Pūrorohiko



## Prescription

This course focuses on text mining and natural language processing. It covers a variety of topics including text representation, document classification and clustering, opinion mining, information retrieval, recommender systems, query expansion, and information extraction.

## Course learning objectives

Students who pass this course should be able to:

1. Explain problems and principles in the related research areas of information retrieval, information extraction, clustering and classification and natural language processing.
2. Build systems to solve problems in text mining or natural language processing related areas.
3. Read, interpret, and explain research papers in text mining and natural language processing.

## Course content

2022: The course is primarily offered in-person, and there are components such as tests, labs, tutorials, and marking sessions which require in-person attendance. There will be remote alternatives for all the components of the course, but these are only available to students studying from outside the Wellington region. The remote option for tests will use a Zoom-based system for online supervision of the tests.

Students taking this course remotely must have access to a computer with camera and microphone and a reliable high speed internet connection that will support real-time video plus audio connections and screen sharing. Students must be able to use Zoom; other communication applications may also be used. A mobile phone connection only is not considered sufficient. The computer must be adequate to support the programming required by the course: almost any modern windows, macintosh, or unix laptop or desktop computer will be sufficient, but an Android or IOS tablet will not.

## Withdrawal from Course

Withdrawal dates and process:

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

## Lecturers

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**Dr Xiaoying Gao (Coordinator)**

xiaoying.gao@vuw.ac.nz 04 463 5978

CO 339 Cotton Building (All Blocks), Gate 7, Kelburn Parade, Kelburn

# Teaching Format

This course will be offered in-person and online. For students in Wellington, there will be a combination of in-person components and web/internet based resources. It will also be possible to take the course entirely online for those who cannot attend on campus, with all the components provided in-person also made available online.

There are two lectures per week plus associate assignments and projects.

# 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: 28 February 2022 - 03 June 2022
- Break: 11 April 2022 - 24 April 2022
- Study period: 06 June 2022 - 09 June 2022
- Exam period: 10 June 2022 - 25 June 2022

# Class Times and Room Numbers

## 28 February 2022 - 10 April 2022

- **Monday** 09:00 - 09:50 – LT105, Alan MacDiarmid Building, Kelburn
- **Wednesday** 09:00 - 09:50 – LT105, Alan MacDiarmid Building, Kelburn

## 25 April 2022 - 05 June 2022

- **Monday** 09:00 - 09:50 – LT105, Alan MacDiarmid Building, Kelburn
- **Wednesday** 09:00 - 09:50 – LT105, Alan MacDiarmid Building, Kelburn

# Set Texts and Recommended Readings

## Required

There are no required texts for this offering.

# Mandatory Course Requirements

There are no mandatory course requirements for this course.

*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

Assessment Item	Due Date or Test Date	CLO(s)	Percentage
Oral presentation (10 mins, 15 hours to prepare)	TBC	CLO: 1,3	20%
Peer review of oral presentations and project demos	TBC	CLO: 1,3	5%
Paper review (one page) (15 hours)	TBC	CLO: 3	15%
Project (baseline code, full code, demonstration, 2-page report) (40 hours)	TBC	CLO: 2	35%
Test	TBC	CLO: 1,2,3	25%

## Penalties

**Any assignment submitted after the deadline will be penalised by 20% per day of the full assignment marks. Individual extensions will only be granted in exceptional personal circumstances. We have a late days policy to cover minor problems.**

LATE DAYS POLICY: Each student will have three "late days" which you may choose to use for any assignment or assignments during the course. There will be no penalty applied for these late days. You do not need to apply for these, instead any late days you have left will be automatically applied to assignments that you submit late.

## Extensions

Individual extensions will only be granted in exceptional personal circumstances, and should be negotiated with the course coordinator before the deadline whenever possible. Documentation (eg, medical certificate) may be required.

## Submission & Return

All work is submitted through the ECS submission system, accessible through the course web pages. Marks and comments will be returned using our online assessment system.

## Workload

In order to maintain satisfactory progress in AIML 428, you should plan to spend an average of 10 hours per week on this paper. A plausible and approximate breakdown for these hours would be:

- Lectures: 2
- Readings: 3
- Assignments: 5

## Teaching Plan

See: [https://ecs.wgtn.ac.nz/Courses/AIML428\\_2022T1/](https://ecs.wgtn.ac.nz/Courses/AIML428_2022T1/)

## Communication of Additional Information

All online material for this course can be accessed at [https://ecs.wgtn.ac.nz/Courses/AIML428\\_2022T1/](https://ecs.wgtn.ac.nz/Courses/AIML428_2022T1/)

## Links to General Course Information

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

**Offering CRN:** [33070](#)

**Points:** 15

**Prerequisites:** 60 300-level pts;

**Corequisites:** AIML 420 or COMP 307;

**Restrictions:** COMP 423

**Duration:** 28 February 2022 - 26 June 2022

**Starts:** Trimester 1

**Campus:** Kelburn