

# COURSE DETAIL

## MACHINE LEARNING

**Country**

New Zealand

**Host Institution**

University of Auckland

**Program(s)**

University of Auckland

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

161

**UCEAP Course Suffix****UCEAP Official Title**

MACHINE LEARNING

**UCEAP Transcript Title**

MACHINE LEARNING

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course examines the field of machine learning, focusing on the core concepts of supervised and unsupervised learning. In supervised learning, we will discuss algorithms that are trained on input data labelled with the desired output. Examples of these topics include *decision trees*, *regression*, *support vector machines*, and *neural networks*. In unsupervised learning, we aim to discover latent structure from input data where no output labels are available. Examples of these topics include *clustering* and *association rule mining*. Students will learn fundamental theory and algorithms that underpin these machine learning techniques, as well as develop an understanding of the relationships between these algorithms and their practical implementation. We will discuss practicalities in the application of machine learning to a range of problems.

## Language(s) of Instruction

English

## Host Institution Course Number

COMPSCI 361

## Host Institution Course Title

MACHINE LEARNING

## Host Institution Course Details

[https://study.auckland.ac.nz/ords/r/uoa/catalogue/course?p6\\_code=COMPSCI%20361&...](https://study.auckland.ac.nz/ords/r/uoa/catalogue/course?p6_code=COMPSCI%20361&...)

## Host Institution Campus

Auckland

## Host Institution Faculty

Computer Science

## Host Institution Degree

## Host Institution Department

**Course Last Reviewed**

2025-2026

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