



# Course Directive ID511001: Programming 2 Semester Two, 2024

## Course Information

Level: 5 Credits: 15

Prerequisite: ID510001: Programming 1

Rōpū Mangu Timetable: Monday 1.00 PM D202 and Wednesday 10.00 AM D313

# **Teaching Staff**

Name: Grayson Orr

Position: Senior Lecturer and Second/Third-Year Coordinator

Office Location: D309

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#### **Course Dates**

Term 3 (10 weeks): 22 July - 27 September
Mid Semester Break: 30 September - 11 October
Term 4 (6 weeks): 14 October - 22 November

# **Public Holidays and Anniversary Days**

A list of public holidays and anniversary days can be found here - https://www.op.ac.nz/students/importantdates

#### Aims

To enable learners to build simple object-oriented (OO) applications and to identify situations that are most appropriate for OO implementation.

# **Learning Outcome**

At the successful completion of this course, learners will be able to:

- 1. Build interactive, event-driven GUI applications using pre-built components.
- 2. Declare and implement user-defined classes using encapsulation, inheritance and polymorphism.

# **Assessments**

Assessment	Weighting	Due Date	Learning Outcomes
Project 1	25%	13-11-2024 (Wednesday at 4.59 PM)	1, 2
Project 2	35%	27-09-2024 (Friday at 4.59 PM)	1, 2
Theory Examination	30%	18-11-2024 (Monday at 12.00 PM)	1, 2
Classroom Tasks	10%	27-09-2024 (Friday at 4.59 PM)	1, 2

# **Grade Table - Criterion Referenced**

Grade	Mark Range
A+	Met all course requirements-mark in range [90-100]
Α	Met all course requirements-mark in range [85-89]
A-	Met all course requirements-mark in range [80-84]
B+	Met all course requirements-mark in range [75-79]
В	Met all course requirements-mark in range [70-74]
B-	Met all course requirements-mark in range [65-69]
C+	Met all course requirements-mark in range [60-64]
С	Met all course requirements-mark in range [55-59]
C-	Met all course requirements-mark in range [50-54]
D	There at end. Did not meet course requirements. Mark in range [40-49]
Е	There at end. Did not meet course requirements. Mark in range [0-39]

# **Provisional Schedule**

Week	Topics		
1/Tahi	GitHub and C#		
2/Rua	Lists and LINQ		
3/Toru	Windows Forms Application		
4/Whā	Classes, Objects and Encapsulation		
5/Rima	Inheritance and Polymorphism		
6/Ono	Interfaces and Enumerations		
7/Whitu	Debugging and Unit Testing		
8/Waru	Timer Control, Graphics Class and SoundPlayer Class		
9/Iwa	More Graphics Class		
10/Tekau	Key Events		
Mid Semester Break			
11/Tekau mā tahi	Assessment Work		
12/Tekau mā rua	Assessment Work		
13/Tekau mā toru	Assessment Work		
14/Tekau mā whā	Assessment Work		
15/Tekau mā rima	Theory Examination Preparation		
16/Tekau mā ono	Theory Examination		

# Resources

#### **Software**

This paper will be taught using **Microsoft Visual Studio**. An installer for **Microsoft Visual Studio** is available - https://visualstudio.microsoft.com/downloads. Please refer any problems with downloads or installers to **Rob Broadley** in D205a.

# Readings

No textbook is required for this course. URLs to useful resources will be provided in the lecture notes.

# **Course Requirements and Expectations**

## **Learning Hours**

This course requires **150 hours** of learning. This time includes **60 hours** directed learning hours and **90** self-directed learning hours.

# **Criteria for Passing**

To pass this paper, you **must** achieve a cumulative pass mark of **50%** over all assessments. There are no reassessments or resits.

#### **Attendance**

Learners are expected to attend all classes, including lectures and labs.

• If you cannot attend for a few days for any reason, contact the course.

#### Communication

**Microsoft Outlook/Teams** are the official communication channels for this course. It is your responsibility to regularly check **Microsoft Outlook/Teams** and **GitHub** for important course material, including changes to class scheduling or assessment details. Not checking will not be accepted as an excuse.

# **Snow Days/Polytechnic Closure**

In the event **Otago Polytechnic | Te Pūkenga** is closed or has a delayed opening because of snow or bad weather, you should not attempt to attend class if it is unsafe to do so. It is possible that the teaching staff will not be able to attend either, so classes will not physically be meeting. However, this does not become a holiday. Rather, the course material will be made available on **GitHub** for classes affected by the closure. You are responsible for any course material presented in this manner. Information about closure will be posted on the **Otago Polytechnic | Te Pūkenga Facebook** page <a href="https://www.facebook.com/OtagoPoly">https://www.facebook.com/OtagoPoly</a>.

## **Group Work and Originality**

Learners in the **Bachelor of Information Technology** programme are expected to hand in original work. Learners are encouraged to discuss assessments with their fellow learners, however, all assessments are to be completed as individual works unless group work is explicitly required (i.e. if it doesn't say it is group work then it is not group work - even if a group consultation was involved). Failure to submit your original work will be treated as plagiarism.

#### **ChatGPT**

Learning to use **Artificial Intelligence tools** like **ChatGPT** is an important skill. While **ChatGPT** is a powerful tool, you **must** be aware of the following:

- If you provide ChatGPT with a prompt that is not refined enough, it may generate a not-so-useful response
- Do not trust **ChatGPT's** responses blindly. You **must** still use your judgement and may need to do additional research to determine if the response is correct
- Acknowledge that you are using **ChatGPT**. In the assessment's repository **README.md** file, please include what prompt(s) you provided to **ChatGPT** and how you used the response(s) to help you with your work

### Referencing

Appropriate referencing is required for all work. Referencing standards will be specified by the teaching staff.

#### **Plagiarism**

Plagiarism is submitting someone elses work as your own. Plagiarism offences are taken seriously and an assessment that has been plagiarised may be awarded a zero mark. A definition of plagiarism is in the Student Handbook, available online or at the school office.

### **Submission Requirements**

All assessments are to be submitted by the time, date, and method given when the assessment is issued. Failure to meet all requirements will result in a penalty of up to **10%** per day (including weekends).

#### **Extensions**

Familiarise yourself with the assessment due dates. Extensions will **only** be granted if you are unable to complete the assessment by the due date because of **unforeseen circumstances outside your control**. The length of the extension granted will depend on the circumstances and **must** be negotiated with the course lecturer before the assessment due date. A medical certificate or support letter may be needed. Extensions will not be granted for poor time management or pressure of other assessments.

## **Impairment**

In case of sickness contact the teaching staff or **Head of Information Technology (Michael Holtz)** as soon as possible, preferably before the assessment is due. The policy regarding the granting of a mark that considers impaired performance requires a medical certificate and a medical practitioner's signature on a form. You may refer to the guide on impaired performance on the student handbook.

## **Appeals**

If you are concerned about any aspect of your assessment, approach the teaching staff in the first instance. We support an open-door policy and aim to resolve issues promptly. Further support is available from the **Head of Information Technology (Michael Holtz)** and **First-Year Coordinator (Elise Allen)**. **Otago Polytechnic | Te Pūkenga** has a formal process for academic appeals if necessary.

### **Other Documents**

Regulatory documents relating to this course can be found on the **Otago Polytechnic | Te Pūkenga** website.