



# Course Directive

## IN710: Object-Oriented Systems Development

### Semester One, 2020

## Description

## Course Information

Credits: 15 Credits  
Prerequisite: IN628: Programming 4  
Timetable: N/A

## Lecturers

Name: Grayson Orr (Lecturer)    Hymie Abd-Latif (Senior Lecturer)  
Location: D311  
Email: grayson.orr@op.ac.nz    suhaimi.latif@op.ac.nz

## Course Dates

Term 1: N/A  
Mid Semester Break: N/A  
Term 2: N/A

## Aims

## Learning Outcomes

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

- 1.

## Resources

### Software

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

## Readings

There is no textbook for the course.

## Provisional Schedule

Week	Date	Session 1	Session 2
1	XX-XX-2020	Python 1	Python 2
2	XX-XX-2020	Object-Oriented Analysis & Design	Exceptions & Unit Testing
3	XX-XX-2020	Strategy Pattern	Observer Pattern
4	XX-XX-2020	Factory & Abstract Factory Pattern	Singleton Pattern
5	XX-XX-2020	Adapter Pattern	Builder Pattern
6	XX-XX-2020	State Pattern	Command Pattern
7	XX-XX-2020	Template Pattern	Decorator Pattern
8	XX-XX-2020	Prototype Pattern	Delegation Pattern
9	XX-XX-2020	Concurrency & Parallelism	Serialization
10	XX-XX-2020	Anti-Patterns & Code Smells	Assessment Work
Mid Term Break			
11	XX-XX-2020	Django 1: MCV/MVT Pattern	Django 2: ORM
12	XX-XX-2020		
13	XX-XX-2020		
14	XX-XX-2020	Assessment Work	Assessment Work
15	XX-XX-2020	Assessment Work	Assessment Work
16	XX-XX-2020	Exam Preparation	Exam

## Assessments

Assessment	Weight	Due Date
Practicals	%	XX-XX-2020
Design Patterns Project	%	XX-XX-2020
MVC/MVT Project	%	XX-XX-2020
Exam	%	XX-XX-2020

## Course Requirements and Expectations

### Learning Hours

This course requires 150 hours of learning. This time includes 64 hours of timetabled class time, and 86 hours of self-directed reading, preparation and completion of assessment work.

## Criteria for Passing

To pass this paper, you must achieve an overall average of 50%. There must be a genuine attempt at all assessments. There are no resits.

## Attendance

- Students are expected to attend all classes, both lectures and labs.
- If you miss a class, you will need to get notes from another student.
- If you cannot attend for a few days for any reason, please contact your lecturer.
- You must turn up ready for assessments on the due date and at the correct time. No extra time will be scheduled. If you do not turn up, you have failed the assessment.

## Communication

Microsoft Outlook and Teams are the official communication channels. It is your responsibility to regularly check Microsoft Outlook/Teams and [GitHub](#) for important course related 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 the Polytechnic 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 your instructor will not be able to attend either, so classes will not physically be meeting. However, this does not become a holiday. Rather, material will be made available on [GitHub](#) for classes affected by the closure. You are responsible for any material presented in this manner. Information about closure will be posted on the Otago Polytechnic Facebook page <https://www.facebook.com/OtagoPoly/>.

## Group Work and Originality

Students in the Bachelor of Information Technology degree are expected to hand in original work. Students are encouraged to discuss assessments with their fellow students, 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 own original work will be treated as plagiarism.

## Referencing

Appropriate referencing is required for all work. Referencing standards will be specified by your lecturer.

## Plagiarism

Plagiarism is submitting someone else's 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 may result in a penalty of up to 10% per day (including weekends).

## Extensions

Extensions are only available for unusual circumstances. These must be applied for, and approved, prior to the submission deadline.

## **Impairment**

In case of sickness contact your lecturer or BIT Team Leader (Michael Holtz) as soon as possible, preferably before the assessment or exam 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 should refer to the guide on impaired performance on the student handbook.

## **Appeals**

If you are concerned about any aspect of your assessment, please approach the lecturer in the first instance. We support an open-door policy and aim to resolve issues promptly. Further support is available from the BIT Team Leader (Michael Holtz) and Head of College (Richard Nyhof). Otago Polytechnic has a formal process for academic appeals if necessary.

## **Other Documents**

Regulatory documents relating this course can be found on the Otago Polytechnic website.