COSC326
Effective Programming

2020 – Semester 1

Instructors and People

Dr. Andrew Trotman:

- Teaches: Weeks 1-6

- Office: Owheo building, Room 1.23A

- Email: andrew@cs.otago.ac.nz

Dr. Steven R. Livingstone

- Teaches: Weeks 7-12

- Office: Owheo building, Room G.30

- Email: s.livingstone@otago.ac.nz

Instructors and People

- Department Kaiāwhina (Māori and Pacific Support):
  - Steven Mills (Office: 245, Owheo)
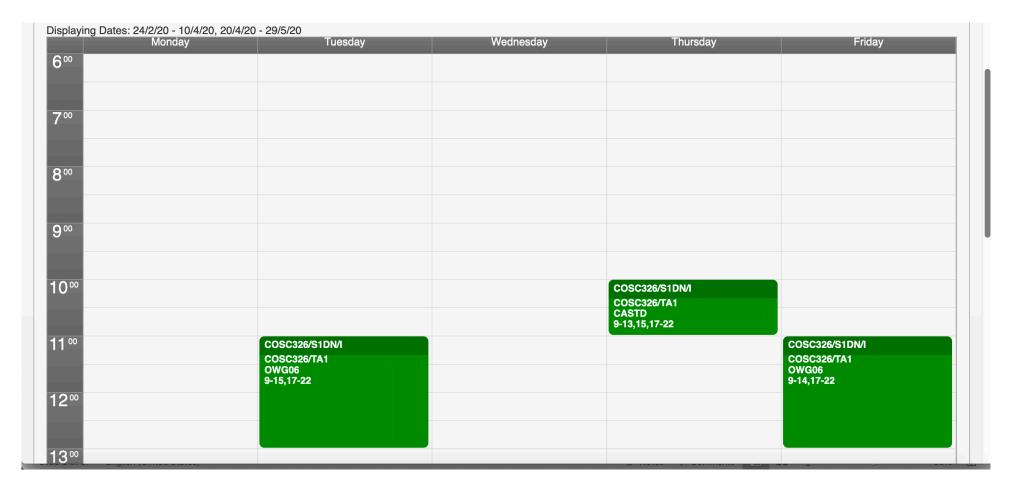- Department Disability Support
  - Contact the main office.

Learning Outcomes

- The central learning outcomes from COSC 326 relate to the strategies and mechanics of problem solving in the context of programming. Specifically:
  - Understanding a problem (simplification, clarification, generalisation and specification)
  - Learning different problem-solving strategies (e.g. creative approaches, top down, choice of tools, etc.)
  - Specific computer-related techniques in problem solving (e.g. limitations of programs, recursion, testing, efficiency)
  - Working with people (e.g. group management and dynamics, collaboration, record keeping and reporting)

Class Details

- Tutorials / Labs
  - Your chance to work in the lab with your colleagues
  - Tuesday 11am-1pm
  - Friday 11am-1pm
  - Owheo Lab G06
- Town Hall Meeting
  - General discussion (not a lecture) about problems
  - Thursday 10am-11am
  - Castle D

- Dr Trotman HAS A TIMETABLE CLASH TUE/THU 11AM-NOON
  - He will be in the labs noon-1pm

Course timetable structure

Otago calendar - https://tts-web-prod.otago.ac.nz/wtv2020/Default.aspx

Assessment Details

- 100% internal assessment
  - To pass you must pass all etudes
  - You can submit as many times as you like
  - The result will be either pass or fail
    - No part marks
- All etudes are on the website
  - http://cs.otago.ac.nz/cosc326
- We expect:
  - 1 completed etude each week
  - You can complete them in any order, but we prefer them completed in order and on time

Assessment Details

- Your solutions must:
  - Compile and run on the lab machines (Macintosh)
  - Be submitted as source code (.c, .cpp, etc.)
  - Be emailed to mark326@cs.otago.ac.nz
    - With the subject set to the "etude n"
      - Where n is the etude number

- We will receive hundreds of emails a week, so if you fail to meet the submission requirements you will be rejected without being marked. In other words, the submission requirements are part of each etude.

Workload Expectations

- This is an 18 point paper
  - 1 point = 10 hours of your time
  - 180 hours (of your time) in total
  - Class is 5 hours/week

  - How many out-of-class hours should you invest?

Academic Integrity and Academic Misconduct

- Academic integrity means being honest in your studying and assessments. It is the basis for ethical decision-making and behaviour in an academic context. Academic integrity is informed by the values of honesty, trust, responsibility, fairness, respect and courage. Students are expected to be aware of, and act in accordance with, the University's Academic Integrity Policy.

- Academic Misconduct, such as plagiarism or cheating, is a breach of Academic Integrity and is taken very seriously by the University. Types of misconduct include plagiarism, copying, unauthorised collaboration, taking unauthorised material into a test or exam, impersonation, and assisting someone else's misconduct. A more extensive list of the types of academic misconduct and associated processes and penalties is available in the University's Student Academic Misconduct Procedures.

Academic Integrity and Academic Misconduct

- It is your responsibility to be aware of and use acceptable academic practices when completing your assessments. To access the information in the Academic Integrity Policy and learn more, please visit the University's Academic Integrity website at www.otago.ac.nz/study/academicintegrity or ask at the Student Learning Centre or Library. If you have any questions, ask your lecturer.

- **Academic Integrity Policy** www.otago.ac.nz/administration/policies/otago116838.html

- **Student Academic Misconduct Procedures** http://www.otago.ac.nz/administration/policies/otago116850.html

WANTED
CLASS REPS

Are You:

☐ Proactive, friendly and keen to contribute to your learning environment?

☐ A great communicator who can represent your peers?

What's in it for you?

☐ Kudos & Karma

☐ Great friendships

☐ Access to FREE professional training opportunities and support

☐ A feed (or three)

☐ A reference letter from OUSA for your CV

☐ Invitations to Class Reps social events throughout the year

Talk to your lecturer or email:
classrep@ousa.org.nz

ousa

More information and thanks!

- The COSC326 webpage [link]
- The COSC326 Manifesto [link]

- Thanks, and have a great semester!