

# Course Framework

## 1 WELCOME

Welcome to **CS114**, *Introduction to Computer Science and Programming*, at Stellenbosch University!

This document contains most of the information you will need to partake in this course, as well as the rules and the regulations for the rest of the semester.

In essence, this course serves as an introductory course whose aim is to teach you how to program. Programming has become an essential tool and is now commonly used in the work place. Being able to program is thus a beneficial skill for any young professional.

We look at:

the structure of a basic program; data types and variables; conditional statements and loops; nested statements; arrays and multi-dimensional arrays; basic input and output (I/O); static methods; libraries and recursion.

We will be programming in Java. After completing this course you should be quite familiar with Java's syntax.

## 2 PREREQUISITES

This course has no prerequisites. Specifically, you need **NOT** have taken Computer Studies as a school subject to enroll for this course.

Corequisite modules:

- Mathematics 114

## 3 WEBSITE

The course website is hosted on `learn.sun.ac.za`. You are strongly encouraged to visit the site regularly for news and updates.

## 4 PEOPLE

### Instructors

- Dr. Mkhusele Ngaxande (**module coordinator**), `ngxandem@sun.ac.za`. Office A518, General Engineering Building.
- Dr. Trienko Grobler, `tlgrobler@sun.ac.za`. Office A510, General Engineering Building.

Departmental telephone number: +27 21 808 4232

Please note that you are **ENCOURAGED** to make use of the public forums that will be made available to you to resolve non-sensitive matters.

### **Teaching assistants**

*Will be made available on the course website.*

### **Tutors**

*Will be made available on the course website.*

### **Class representatives**

*Will be made available on the course website.*

## **5 COURSE MATERIAL**

The prescribed text book for this course is: *Introduction to Programming in Java* by Robert Sedgewick and Kevin Wayne. We will follow the book very closely. We only cover the first half of this textbook during this course. The lecture slides and other resources can be downloaded from the course website.

## **6 FORMAT**

You are expected to devote on average 10 hours per week on this course:

- 2 hours reading the prescribed material before a lecture
- 3 hours of attending lectures
- 3 hours attending tutorial
- 2 hours practicing programming

## **7 MEETINGS**

The lecture times for CS114 are as follows:

- Mondays 11h00–11h50 in **Van der Sterr 3124 and NARGA G 3019**
- Wednesdays 10h00–10h50 in **Van der Sterr 2121 and NARGA H 3011**
- Fridays 08h00–08h50 in **Van der Sterr 2121 and NARGA H 3011**

The instructor(s) will meet with the class representatives three times during the course:

- Thursday 3 Mar 13h00–14h00
- Thursday 7 Apr 13h00–14h00
- Thursday 5 May 13h00–14h00

## 8 SCHEDULE

Will be made available on the course website.

## 9 LANGUAGE

All lectures will be in English with summaries in Afrikaans. Course materials will be available in both languages whenever it is deemed reasonably practicable.

## 10 ASSESSMENT

This module is assessed by flexible evaluation. This means that there are no examinations or re-examinations for this module. The final mark for this module will be calculated as follows:

Test	Date	Venue	Weight
Test 1	Monday 14 Mar, 17h30–19h30	TBA	25%
Test 2	Tuesday 19 Apr, 17h30–19h30	TBA	25%
Project	–	–	25%
Test 3	Friday 27 May, 14h00–17h00	TBA	25%
Test X	Friday 17 Jun, 9h00–12h00	TBA	–

The above assessment opportunities are **COMPULSORY**. Missed assessments will receive a mark of zero.

Students who miss a test because of (1) an official time table conflict or (2) illness (and who can produce a medical certificate), will be allowed to write Test X, which can replace **ONLY ONE** missed test. Other missed tests will receive a mark of **ZERO**. Furthermore, Test X can under **NO CIRCUMSTANCES** replace any other test you have already completed. If you are ill, you should, therefore, **NOT** attempt a test, rather obtain a medical certificate and write Test X.

The project is compulsory for all students. There are no **EXCEPTIONS** or **EXTENSIONS**. Test X can under **NO CIRCUMSTANCES** replace your project mark. Your project demo is also **COMPULSORY**. Students who miss their project demo because of (1) an official time table conflict or (2) illness (and who can produce a medical certificate), will be given another opportunity to demo their projects.

Hand your medical certificate to your instructor within **7 DAYS** of your missed assessment. Please peruse the section in the general yearbook that deals with the rules and regulations that apply in the case of medical certificates. These rules will be strictly enforced in this course.

The instructor reserves the right to adjust marks and weights when it is deemed appropriate.

## 11 PLAGIARISM

The plagiarism policy of the University<sup>1</sup> will be strictly enforced in this course. Please familiarize yourself in detail with this policy. In short, plagiarism occurs when you present (parts of) another person's work as if it were your own. This includes work published in books or on the internet, as well as code written

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<sup>1</sup><http://www.sun.ac.za/english/policy>

by fellow students or any other third party. All submissions will be tested automatically by a plagiarism detection program, and all students involved will receive a zero mark and will face disciplinary action.