

- Course
- CS-A1110

Course materials
- Your points

Form a group

Code Vault

Lab Queue

Telegram chat

Lab sessions

Glossary

Scala reference

O1Library docs

FAQ

IntelliJ installation

Learning goals

Style guide

Debugger

Resources

For the reader

This course has already ended.
The latest instance of the course can be found at: **O1: 2023**

CS-A1110 / Course materials

Week 1

Friday, 28 August 2020, 12:00 – Wednesday, 16 September 2020, 12:00

- Chapter 1.1: Introduction to O1 5 / 5
- Chapter 1.2: Introduction to Programming 12 / 12
- Chapter 1.3: Numbers, Words, Sounds, and Pictures 13 / 13
- Chapter 1.4: Storing Values in Variables 40 / 40
- Chapter 1.5: Collections and References 20 / 20
- Chapter 1.6: Using Subprograms 20 / 20
- Chapter 1.7: Creating Custom Functions 90 / 90
- Chapter 1.8: Functions, Types, and Errors 130 / 130

Week 2

Friday, 28 August 2020, 12:00 – Wednesday, 23 September 2020, 12:00

- Chapter 2.1: Object-Oriented Programming 25 / 25
- Chapter 2.2: Inside an Object 50 / 50
- Chapter 2.3: Classes of Objects 55 / 55
- Chapter 2.4: Inside a Class 65 / 65
- Chapter 2.5: Pictures and Positions 50 / 50
- Chapter 2.6: Many Ways to Use a Variable 55 / 55
- Chapter 2.7: A Complete Scala Application 75 / 75

Week 3

Friday, 28 August 2020, 12:00 – Wednesday, 30 September 2020, 12:00

- Chapter 3.1: Interactive Graphics 65 / 65
- Chapter 3.2: Interfaces and Documentation 10 / 10
- Chapter 3.3: Experiences and Truths 70 / 70
- Chapter 3.4: Decisions 75 / 75
- Chapter 3.5: Soda, Football, and Errors 105 / 105
- Chapter 3.6: Decisions, Decisions 25 / 25

Week 4

Friday, 28 August 2020, 12:00 – Wednesday, 7 October 2020, 12:00

- Chapter 4.1: Driving Practice 85 / 85
- Chapter 4.2: Containers — and a Program that Crashes 115 / 115
- Chapter 4.3: A Lack of Values 15 / 15
- Chapter 4.4: Exercises in Not Existing 140 / 140

Week 5

Friday, 28 August 2020, 12:00 – Wednesday, 14 October 2020, 12:00

- Chapter 5.1: Logic, Blood, and Shopping 120 / 120
- Chapter 5.2: Objects Everywhere 60 / 60
- Chapter 5.3: Objects as Functions, Classes as Objects 5 / 5
- Chapter 5.4: Inside the Scala Toolkit 5 / 5
- Chapter 5.5: Looping through Elements 30 / 30
- Chapter 5.6: Loops, Strings, and Elections 220 / 220

Week 6

Friday, 28 August 2020, 12:00 – Wednesday, 21 October 2020, 12:00

- Chapter 6.1: Functions as Parameters 90 / 90
- Chapter 6.2: Anonymous Functions 45 / 45
- Chapter 6.3: Collections and Snakes 130 / 130
- Chapter 6.4: More Collections, More Programs 163 / 165

Week 7

Friday, 28 August 2020, 12:00 – Wednesday, 28 October 2020, 12:00

- Chapter 7.1: Laziness and Untold Repetitions 215 / 215
- Chapter 7.2: Traits 35 / 35
- Chapter 7.3: Inheritance and Class Hierarchies 70 / 70
- Chapter 7.4: A Game of Glasses 60 / 60
- Chapter 7.5: City Simulator 60 / 60

Week 8

Friday, 28 August 2020, 12:00 – Wednesday, 4 November 2020, 12:00

- Chapter 8.1: Robots 50 / 50
- Chapter 8.2: Robots and Options 75 / 75
- Chapter 8.3: Robots and Conditional Looping 105 / 135
- Chapter 8.4: Pairs and Maps 25 / 25

Week 9

Friday, 28 August 2020, 12:00 – Wednesday, 11 November 2020, 12:00

- Chapter 9.1: Interactive Fiction and Code Quality 80 / 80
- Chapter 9.2: Comparing, Sorting, and Grouping 120 / 120
- Chapter 9.3: Peeveli 90 / 90

Week 10

Friday, 28 August 2020, 12:00 – Wednesday, 25 November 2020, 12:00

- Chapter 10.1: Your Text Adventure 200 / 200
- Chapter 10.2: Programming Paradigms 5 / 5

Week 11

Friday, 28 August 2020, 12:00 – Wednesday, 2 December 2020, 12:00

- Chapter 11.1: Arrays and a Faulty Train
- Chapter 11.2: Robots That Compete 115 / 115
- Chapter 11.3: An Introduction to File I/O

Week 12

Friday, 28 August 2020, 12:00 – Wednesday, 9 December 2020, 12:00

- Chapter 12.1: Recursion 115 / 115
- Chapter 12.2: Robot Tournament 60 / 100
- Chapter 12.3: GUIs with the Swing Library

Week 13

Friday, 28 August 2020, 12:00 – Sunday, 28 February 2021, 23:59

- Chapter 13.1: Course-End Feedback
- Results of course feedback survey

Supplementary Pages

Friday, 28 August 2020, 12:00 – Thursday, 1 April 2021, 12:00