Informatics 1A
Introduction to Computation
Lecture 0

Introduction

Don Sannella
University of Edinburgh
Who
Don Sannella

Lecturer:
Functional Programming (FP)

dts@inf.ed.ac.uk
IF 5.12
Julian Bradfield

Lecturer:
Computation and Logic (CL)

jcb@inf.ed.ac.uk
IF 4.07
Vidminas (Vid) Vizgirda

Informatics 1A
Teaching Assistant

s1750767@sms.ed.ac.uk
IF 3.25
Kendal Reid

Informatics Teaching Organisation (ITO)

kendal.reid@ed.ac.uk
AT 8.06
What
Functional Programming

- **Haskell**: Computing based on calculation using data structures, without states.
- An introduction to programming and algorithmic thinking.
Logic and Computation

- **Symbolic logic**: Describing and reasoning about information, where everything is either true or false.
- **Finite Automata**: Computing based on moving between states in response to input.
Why
Foundations for Informatics

• A *solid basis* for study of other topics
• Interesting *connections* between FP and CL, and *practical applications*
• Accessible to all students, *regardless of previous background*
• Demonstrates the *intellectual depth* of Informatics: not just technical skills
When & Where
Lectures

FP 2:10–3:00 Monday, Oak LT
FP 2:10–3:00 Tuesday, Oak LT
CL 11:10–12:00 Thursday, Oak LT
CL 2:10–3:00 Friday, Oak LT

Oak LT = Oak Lecture Theatre, Nucleus Building, King’s Buildings
Lectures

FP 2:10–3:00 Monday, Oak LT
FP 2:10–3:00 Tuesday, Oak LT
CL 11:10–12:00 Thursday, Oak LT
CL 2:10–3:00 Friday, Oak LT
except for weeks 1-2, some FP⇔CL

Oak LT = Oak Lecture Theatre,
Nucleus Building, King’s Buildings
Lectures

FP 2:10–3:00 Monday, Oak LT
overflow Elm LT
FP 2:10–3:00 Tuesday, Oak LT
overflow Larch LT
CL 11:10–12:00 Thursday, Oak LT
overflow Swann LT
CL 2:10–3:00 Friday, Oak LT
overflow Sanderson LT1 (Week 1)
+ Joseph Black LT250 (Weeks 2-11)
Tutorials

exercises issued: noon Tuesday (week $n$)
due in: noon Tuesday (week $n+1$)
separate exercises for FP and for CL

meeting: 90 minutes in small groups
Thursday and Friday, starting in week 2
6 locations in Central Area

3 locations in King’s Buildings
Drop-in Labs
optional, good place to get help in person
every weekday

16:10–18:00 Monday-Friday, AT 6.06
15:10–16:00 Monday, HBB Classroom 4
16:00–17:00 Monday, ALR Classroom 10

AT = Appleton Tower
HBB = Hudson Beare Building
ALR = Alrick Building
Learn + Course Webpage

Everything about the course will be published on the course’s Learn page and course webpage

- Organisational information: when & where
- Lecture slides, reading assignment, tutorial exercises, solutions
- Programming competition
- Other resources
How
Introduction to Computation
Haskell, Logic and Automata

- Electronic copy
  The university library
  (Learn > Library Resources)
  PDF, not EPUB!
- Springer: £29.99
- Blackwells: £25.49
  using 15% student discount
- Amazon: £26.50
Assessment

FP quiz, due 12.00 Wednesday
CL quiz, due 12.00 Saturday
FP & CL tutorial, due 12.00 Tuesday
tutorial meeting Thursday or Friday
each week, starting week 2
Assessment

FP quiz, 1 point each
CL quiz, 1 point each
FP tutorial, 4 points each
CL tutorial, 4 points each
each best 8 of 10
Any questions?

Please ask questions!

• Ask in lectures
• Ask other students
• Ask demonstrators during labs
• Ask your tutor during tutorials
• Ask in the Piazza online forum
Do the work

You *must* listen to the lectures each week *before* the tutorial!

You *must* do the assigned reading each week *before* the tutorial!

You *must* do the tutorial exercises each week *before* the tutorial!

You will only receive marks for coursework if you *attend* the tutorial.

*You will fail the course if you don’t do the work!*
Common Marking Scheme

A1 90-100 Excellent
A2 80-89 Excellent
A3 70-79 Excellent
B 60-69 Very Good
C 50-59 Good
D 40-49 Pass
E 30-39 Marginal Fail
F 20-29 Clear Fail
F 10-19 Bad Fail
G 0-9 Bad Fail

https://web.inf.ed.ac.uk/infweb/student-services/ito/students/common-marking-scheme
Common Marking Scheme

You are expected to get 3/4 on tutorials
Optional questions are optional!

https://web.inf.ed.ac.uk/infweb/student-services/ito/students/common-marking-scheme
Good Scholarly Practice

You may *collaborate*, but you are responsible for knowing the material.

You must *pass* Inf1A to progress.

The *School Academic Misconduct Officer* will contact you if you break the rules. It will go into your record.
Good Scholarly Practice

Your *mark* in Inf1a has *no* effect on your final degree classification.

What you *learn* in Inf1a has a *huge* effect on your final degree classification.