

# **Informatics 2A 2015–16**

## Lecture 1

### Introduction and Course Administration

John Longley  
Shay Cohen

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## Subject of the course

The full title of the course is:

Informatics 2A: Processing Formal and Natural Languages

The course is about ways of describing, specifying and processing both **computer languages** and **human languages**.

Remarkably, many important ideas and methods are common to both of these — though there are also major differences.

**Lecture 2** will give a overview and roadmap of the intellectual content of the course.

## Course staff

### Lecturers:

- John Longley (jrl@inf.ed.ac.uk)  
Office hour: Thursdays 10:30–11:30 (from Wk 3), IF 4.11
- Shay Cohen (scohen@inf.ed.ac.uk)  
Office hour: Mondays 11:30–12:30 (from Wk 3), IF 4.26

### Informatics 2 Year Organiser:

- Sharon Goldwater (sgwater@inf.ed.ac.uk)

### Course Secretary:

- Kendal Reid, ITO (ito@inf.ed.ac.uk, Forrest Hill 1.B15)

## Communication mechanisms

**Course website:** <http://www.inf.ed.ac.uk/teaching/courses/inf2a/>  
This is the main anchor point for all course information and material. Bookmark it now!

**Email list:** [inf2a-students@inf.ed.ac.uk](mailto:inf2a-students@inf.ed.ac.uk)  
Important administrative announcements (e.g. changes to deadlines) will be posted here.

**Discussion forum:**  
For discussion of course content, lectures, assignments etc.

**Course reps:** [ug2-reps@inf.ed.ac.uk](mailto:ug2-reps@inf.ed.ac.uk)  
For feedback from you to course staff.

It is your responsibility to check (especially) your email and the website and to stay in touch with what's going on.

## Lectures

Lectures are on **Tuesday**, **Thursday** and **Friday** afternoons.

- Tuesdays & Fridays: 16:10–17:00, Appleton Tower, LT 5.
- Thursdays: 17:10–18:00, David Hume Tower, Hall C.

The last lecture is a revision lecture on Thursday of Week 11 (3 December).

Lectures will be **videoed**, with videos linked from the webpage.

## Lecture materials

The website contains links to the slides for each lecture.

These links will become live immediately after (or just before) the lecture takes place.

For those who wish to see the material in advance (e.g., students with an adjustment schedule), last year's slides are available via a link at the top of the page.

If you want printed copies of lecture slides, please print them off yourself if you need them, bearing in mind the cost to [the planet](#). (E.g., use the **4up** option.)

## Tutorials

Tutorials for Inf2a start in **Week 3** (beginning Monday 5 Oct). So Tutorial  $n$  happens in Week  $n + 2$ .

Each tutorial will cover material from the previous week's lectures. A *tutorial sheet*, consisting of problems to be discussed in Tutorial  $n$ , will be released (on the course website) on the Friday of Week  $n + 1$ .

You should have already received an email from Kendal Reid via **inf2a-students**, advertising the preliminary allocation of students to tutor groups. If you can't make the time of your allocated group, please email Kendal suggesting some groups you *could* manage. Or if you need to change tutor groups for any other reason, **please let Kendal know** (important!).

***N.B. If you miss two tutorials in a row, your PT will be notified and you will be chased up!***

## Python and Lab Sessions

In parallel with the lecture material, you will be learning the programming language (**Python**), and learning to use the associated Natural Language Toolkit (**NLTK**). These skills will be needed for the second assessed course assignment.

This can be done with the help of worksheets, available via the website, which you can work through at the **Lab Session** to which you have been assigned (or a different one, or on your own).

The purposes of the lab sessions are: assistance in learning Python/NLTK; assistance with coursework assignments; additional feedback on assignment 1. **Lab Demonstrators** will be on hand at these sessions to offer help.

Lab sessions start in Week 3.



## Assessed coursework

There will be **two** assessed coursework assignments, carrying equal weight. Each is worth 12.5% of the course mark.

**Assignment 1:** issued Tue 14 Oct, due in Tue 28 Oct, 4pm

**Assignment 2:** issued Fri 7 Nov, due in Fri 28 Nov, 4pm

Both assignments will be computer-based, and are to be submitted online from DICE machines. Assignment 1 is in **Java** and Assignment 2 is in **Python**.

Marked assignments will be available for collection by students **2 weeks** after the submission deadline.

All assessed work must be **your own individual work**.

## Inf2A exam

The main exam takes place in **December 2014**.  
The resit is in **August 2015**.

Exam dates are set by Student Administration, not us. We'll let you know once they are announced.

The exam is pen-and-paper, and lasts **2 hours**. It consists of:

- 5 compulsory short questions (10% each), and
- a choice of 2 out of 3 longer questions (25% each).

The total 100% contributes 75% to the course mark.

## Recommended reading

The following textbook is highly recommended for this course and many other Natural Language courses in later years:

- D. Jurafsky and J. Martin, **Speech and Language Processing (2nd edition)**, Prentice-Hall, 2009.

For the formal language side, suitable texts include:

- D. Kozen, **Automata and Computability**, Springer, 2000.
- M. Sipser, **Introduction to the Theory of Computation (3rd edition)**, Cengage Learning, 2012.

Lectures will stick closely to the terminology and notation of the Jurafsky & Martin and Kozen texts.

## Formative feedback

Assessed coursework provides you with **summative feedback** on the course.

*Formative feedback* is feedback on non-assessed parts of the course. This helps your understanding and serves as *feedforward* towards future assessed components (e.g., the exam). Formative feedback provided in Inf2A includes:

- Self-assessment and challenge questions in lectures.
- Feedback from tutors in tutorials.
- Feedback from demonstrators in lab sessions.
- Feedback from lecturers at drop-in office hours.

## Needing help?

- If you are suffering from **personal circumstances** that may be adversely affecting your work, contact your **PT**.
- If you wish to apply for a coursework **deadline extension** (for a good reason!), contact the **Informatics Teaching Organization**, *not* the lecturers. Except in exceptional circumstances, extensions will only be granted if applied for *prior to* the coursework deadline.
- If you are having difficulties **understanding** the course material, possible sources of help are: your **class mates**, the **discussion forum**, your **tutor**, the **lecturers**.
- If you wish to anonymously raise any **issue** about the course material or delivery, contact `ug2-reps@inf.ed.ac.uk`

**Enjoy the course!**

Lecture 2 on Thursday: Overview and roadmap of the intellectual content of the course (JL+SC).

Volunteers for UG2 student reps: please come and add your name to the list.

Any questions?