PLIN Modules – Module Information Sheet (2023/24)

1. General Information

- **Module Code:** PLIN0034
- **Title:** Introduction to Computational Linguistics
- **Credits:** 15
- **Module Tutor:** Dr Andrew Lamont (he/him/his) **Contact:** andrew.lamont@ucl.ac.uk
- **Module Available at the following levels:**
  - **Level 5 UG:** Yes
  - **Level 7 PG:** Yes
- **Module Description:** The module introduces students to core concepts in computational linguistics and provides a comprehensive introduction to the Python programming language. It discusses foundational issues such as the representation of linguistic structure and probability theory. Students gain hands-on experience implementing formal theories of phonology and morphology and working with probabilistic models such as *n*-grams and Hidden Markov Models.
- **Prerequisites:** Familiarity with entry-level phonology and syntax (PLIN0064 and PLIN0004, respectively, or equivalents)
- **Summary:** Lectures will cover topics in computational theory including first-order logic and probability theory, as well as formal linguistic models such as Boolean Monadic Recursive Schemes, *n*-gram models, and Hidden Markov Models. Additionally, lectures will develop students' understanding of the syntax and semantics of the Python programming language. Students will apply their knowledge to concrete problems in tutorial.

Assessment

Mode of Assessment	**Weight**	**Format**
Coursework 1	**50%**	Written assessment, 1000 words.
Coursework 2	**50%**	Written assessment, 1000 words.