

**UNIVERSITY OF MALTA**  
**Faculty of Information and Communication Technology**  
**European Master of Science in Human Language Science and Technology – M.Sc. (HLST)**  
**(for courses commencing October 2008 and later)**

**STUDENTS ARE REQUIRED TO REGISTER FOR 60 CREDITS IN A GIVEN YEAR INCLUDING ALL COMPULSORY UNITS.**

**Year** (This unit starts in Semester 1 and continues in Semester 2.)

**Compulsory Unit** (All students in year 2 *must* register for this unit.)

CSA5310	HLST Dissertation (2 <sup>nd</sup> year only)	30 credits
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**Elective Units**

CSA5015	Fundamentals of Discrete Mathematics	6 credits
CSA5018	Concepts of Artificial Intelligence	6 credits
CSA5019	Formal Languages and Compilers	6 credits
CSA5309	HLST Project	6-15 credits
LIN2080	Discourse Pragmatics I: Introduction to Discourse Analysis & Conversational Pragmatics	6 credits
LIN5070	Fundamentals of Morphology and Syntax	4 credits
LIN5090	Issues in General Phonetics	4 credits
BIT5108	IT Fundamentals	2 credits

**Semester 1**

**Elective Units**

CSA5008	Introduction to Bioinformatics	6 credits
CSA5012	Fundamentals of Data Structures and Algorithms	6 credits
CSA5013	Imperative Programming and Object Orientation in Java	6 credits
CSA5014	Fundamental Concepts of Web Science	6 credits
CSA5016	Logic Programming	3 credits
CSA5021	Concepts and Systems for Adaptive Hypertext	6 credits
CSA5022	Machine Learning, Expert Systems and Fuzzy Logic	6 credits
CSA5023	Topics in Agent Technology	6 credits
CSA5311	Seminar Presentation	4 credits
LIN5022	Grammar Models	4 credits
LIN5081	Pragmatics for Language Technology	2 credits
BIT5103	Introduction to Computer Science I	5 credits
BIT5105	Programming in Java and Problem Solving Techniques	5 credits

## Semester 2

### Elective Units

CSA5003	Finite State Machinery and Computational Morphology	4 credits
CSA5004	Unification Grammar	5 credits
CSA5006	Logic, Representation and Inference	4 credits
CSA5009	Information Extraction	6 credits
CSA5011	Corpora and Statistical Methods	6 credits
CSA5017	Functional Programming	3 credits
CSA5020	Further Topics in Data Structures and Algorithms	6 credits
LIN2160	Introduction to Computational Linguistics	2 credits
LIN5021	Issues in Morphology and Syntax	4 credits
LIN5030	Theorizing and Linguistics	2 credits
LIN5082	Semantics for Language Technology	2 credits
BIT5201	AI as Representation and Search	5 credits
BIT5205	Databases and their Implementations	5 credits
BIT5307	Speech Technology with Digital Signal Processing	5 credits

Due to the structure of this course, and in particular its multi disciplinary nature, reference should be made to the information on the following link: [www.cs.um.edu.mt/~mros/HLST](http://www.cs.um.edu.mt/~mros/HLST).

**This course of study is governed by “The General Regulations for University Postgraduate Awards, 2007” and by the Bye-Laws for the award of the European Master of Science in Human Language Science and Technology – M.Sc. (HLST) – Degree Course Regulations, 2007 - under the auspices of the Faculty of Information and Communication Technology.**