Academic subject: ENGLISH LANGUAGE – n.1				
Degree Class: L-35 SCIENZE MATEMATICHE		**Degree Course:** Mathematics	**Academic Year:** 2017/2018	
		Kind of class: mandatory	**Year:** 1	**Period:** 2
			ECTS: divided into **ECTS lessons:** 3 **ECTS exe/lab/tutor:**	

Time management, hours, in–class study hours, out–of–class study hours
lesson: 24   exe/lab/tutor: in–class study: out–of–class study:

Language: English	**Compulsory Attendance:** no	

Subject Teacher: Antonietta Bagnardi	**Tel:** +39 080 544 22 87 **e–mail:** antonietta.bagnardi@uniba.it	**Office:** Department of Computer Science Floor 6th	**Office days and hours:** Tuesdays 11.00-13.00; other days and times by appointment

Prerequisites: General English Language acquired during primary, secondary and high school

Educational objectives: Acquiring a good practice and knowledge of the specific English language in mathematics, especially the vocabulary, the formulae, the operations to solve in the English language; comprehension of specific tests;

Expected learning outcomes (according to Dublin Descriptors)	**Knowledge and understanding:** Acquiring fundamental concepts of the mathematical English language; acquiring the relative techniques linked to the maths language; acquiring basic notions such as the lexis, a good pronunciation and a good understanding of scientific texts. **Applying knowledge and understanding:** The acquired knowledge is useful to understand and translate all specific mathematical texts and/or articles and to write scientific papers **Making judgements:** The ability to understand and analyze specific texts in the English language; ability to solve mathematical problems and operations in the English language. **Communication:** Students acquire a good English pronunciation and knowledge of the specific English language in the mathematics field , useful when writing and presenting future mathematical articles, theses and/ or papers. **Lifelong learning skills:** Acquiring suitable learning methods, supported by text consultation and by solving the exercises and questions in the English language.

Course program
English Language for mathematics:
1. Skimming: a global comprehension of texts in the mathematicl field, all written in English;
2. Scanning: the finding of specific and useful information in mathematical texts;
3. Linguistic aspects: focusing the attention on the structure of texts and articles as well as on the recurring elements which form the technical-specialized discourse;
4. Lexical aspects: specificity of the mathematical vocabulary and terms as well as the study of the formation of specific mathematical words with the use of suffixes and prefixes; connectors, "false friends" and "nominal groups" are also analysed;
5. Some interesting basic comparisons are done between the mathematical language and natural languages such as: the position of alfabetical letters in a language corresponds to the position of numbers in the mathematics language;

therefore the study of phonetics, syntax, and semantics are fundamentally compared to the maths language;

6. The understanding and translation of specific maths texts: students should understand and translate texts fluently;

7. Pronunciation: a good pronunciation of the English language is required: specific texts are read in class; students can also practice their pronunciation individually thanks to the CD of the pronunciation;

Teaching methods:
Lectures and exercise sessions

Auxiliary teaching:
Didactic material available in the dm site

Assessment methods:
Written exam

Bibliography:
1. L.Rudd and M.-P. Butts, "English Practice in Computer Science and Mathematics", Digilabs, Via Albanese, Bari, 2017;
2. A Dictionary of Mathematics, Oxford University Press, 6th edition, 2015
3. M. Vince, G. Cerulli, "New Inside Grammar", McMillan, 2013
4. "Basic English for Science", Oxford University Press, 1978