

Course Name	<b>Mathematical Logic</b>
Instructor and position	Kazushige Terui, Associate Professor
Students, date, time and place	1-5th year, 2nd semester, Friday, 5th period, Lecture room1
Credits	2
Lecture/experiment	Lecture
Summary	An introductory-intermediate level course in mathematical logic. Topics are chosen among those related to applications of logic in computer science.
Aims	Depending on the participant's background, one of the following goals can be chosen: (i) a basic acquaintance with the syntax and semantics of classical logic (ii) a deep understanding into important theorems, like completeness, incompleteness, and cut-elimination theorems. (iii) applications of logic in the foundations of programming languages.
Plan	Determined by consultation with the participants, depending on their background knowledge.
Evaluation criteria	Based on class attendance and homework assigned at each class.
Textbooks	Lecture notes (to be distributed).
References	小野寛晰『情報科学における論理』、日本評論社、1994. Elliott Mendelson, Introduction to Mathematical Logic (4 <sup>th</sup> ed.), Chapman & Hall, 1997.
Prerequisites	None.
Remarks	