UCL Université catholique de Louvain

LMAT1241

2012-2013

Geometry II

6.0 credits	45.0 h + 15.0 h	2q

Teacher(s) :	Bieliavsky Pierre ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	This course is a continuation of the course Geometry I. II will contain two parts : projective geometry and riemannian geometry of surfaces in the three dimensional space.
Aims :	The course aims at developing an intuition for geometrical objects that are more general than those met in the course Geometry I. *The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".*
Content :	The course will comport two parts. The first part will be a classical introduction to projective geometry : Pappus and Desargues theorems, duality, perspectivities and birapport, link with affine geometry. The second part will concern the metric theory of surfaces in the three dimensional euclidean space : different types of curvature, minimal surfaces and the Gauss-Bonnet theorem.
Cycle and year of study :	> Bachelor in Mathematics > Bachelor in Economics and Management > Bachelor in Engineering > Bachelor in Physics
Faculty or entity in charge:	MATH