

課程大綱及進度表

開課系所	Mathematics
開課學年	2012
開課學期	Fall
課程名稱(中文)	
課程名稱(英文)	Differential Geometry
課程屬性碼	L154800
課程碼	
分班碼	
課程對應系(所、開課單位) 教育目標(全名)	
課程對應系(所、開課單位) 基本素養(全名)	
課程對應系(所、開課單位) 核心能力(全名)	
先修科目或先備能力	Calculus, Linear Algebra, Undergraduate Differential Geometry.
學分數	3
開課教師	Eugene Zhu Xia
e-mail	eugenexia at gmail.com
電話	
Office Hours	By appointment
課程概述(中文、英文)	This is a standard introductory differential geometry class. Topics include manifolds, differentiable manifolds, inverse function theorem, de Rham cohomology and Sard's theorem if time permits.

教學目標	Introducing the basic concepts of coordinate free differential geometry.
授課課程大綱明細	Smooth manifolds and mappings, inverse function theorem, tangent bundles, de Rham cohomology and Sard' s theorem.
參考書目	An Introduction to Differential Manifolds, Dennis Barden and Charles Thomas. Differential Topology, Victor Guillemin, Alan Pollack.
課程要求	
評量方式	Homework & Presentations: 30% Mid-term: 30% Final: 40%
課程網址	
助教資訊	
備註	