

中國醫藥大學九十九學年度第二學期教學進度表

課目：流行病學建模與分析(下) 教師：謝英恆教授

學分：二（選修） 班級：環醫所 研一

時間：周四(10:10-12:00 AM) 地點：電腦教室

課程目標：

時間		主題	負責人
1	2/24	Course Introduction/ Modeling HIV Underreporting (lecture 11)	謝英恆
2	3/3	"	"
3	3/10	Project progress discussions	"
4	3/17	Pair-formation models for STD: Introduction (lecture 12)	"
5	3/24	Project proposal	"
6	3/31	Pair-formation models: HIV as an example, Part I (lecture 13)	"
7	4/7	Pair-formation models: HIV as an example, Part II (lecture 14)	"
8	4/14	Pair-formation models: HIV as an example, Part II (lecture 14 continued)	"
9	4/21	Project progress report	"
10	4/28	Public health-related modeling: Estimation of infected population size in hidden populations (lecture 15)	"
11	5/5	"	"
12	5/12	Public health-related modeling: Herd immunity and vaccination strategy (lecture 16)	"
13	5/19	More Compartment Models: Spatial Spread and Patch Model (lecture 17)	"
14	5/26	"	"
15	6/2	Project progress discussions	"
16	6/9	Modeling Candidate Genes Associated with Susceptibility to SARS-CoV (lecture 18)	"
17	6/16	"	"
18	6/23	Final project presentation	"

參考書籍： Anderson, R., and May, R. (1991). Infectious Diseases of Humans: Dynamics and Control. Oxford University Press, Oxford. 2. Brauer, F., van den Driessche, P., and Wu, J. (2008) Mathematical Epidemiology. Springer-Verlag, Berlin.

評量標準：Project proposal/mid-term progress report: 40%; Course project presentation: 20%;
Final project report: 40%.