



	第十週 (4/25~4/29)	15.3 Double Integrals over General Regions 15.4 Double Integrals in Polar Coordinates	
	第十一週 (5/2~5/6)	15.5 Applications of Double Integrals 15.6 Triple Integrals 15.7 Triple Integrals in Cylindrical Coordinates	
	第十二週 (5/9~5/13)	15.8 Triple Integrals in Spherical Coordinates 15.9 Change of Variables in Multiple Integrals	
16. Vector Calculus	第十三週 (5/16~5/20)	緩衝時間 16.1 Vector Fields 16.2 Line Integrals	
	第十四週 (5/23~5/27)	16.3 The Fundamental Theorem for Line Integrals 16.4 Green's Theorem	
	第十五週 (5/30~6/3)	16.5 Curl and Divergence 16.6 Parametric Surfaces and Their Areas 16.7 Surface Integrals	
	第十六週 (6/6~6/10)	16.8 Stokes' Theorem 16.9 The Divergence Theorem	6/6(一)端午節放假
	第十七週 (6/13~6/17)	16.10 Summary 緩衝時間	
	<b>期末考 6/18 (六) 13:30~16:00 考試範圍: 15.1~16.10 (英文命題)</b>		

II. Course prerequisite : High School Mathematics

III. Reference material ( textbook(s) ) : James Stewart, Calculus, Early Transcendentals, 6<sup>th</sup> edition.

IV. Grading scheme : Midterm exam: 40%, Final exam: 40%, Quizzes and/or homework: 20%

V. Others :

☆08-12 班：上課時間：三 78 五 12 、 實習課時間：三 9

13 班：上課時間：二 78 四 56 、 實習課時間：二 9

☆各班實習課分組教室：公告於微積分甲統一教學網站公佈 <http://www.math.ntu.edu.tw/~mathcal/a/> 。

☆各班助教 Office Hour 時間：公告於微積分甲統一教學網站公佈。

☆習題：習題繳交與否依各授課教師規定；習題解答公佈於微積分甲統一教學網站。

☆期中、期末考題目以英文命題。

VI. Course Goal :

Study sequences and series to understand the process of approximation; learn the skills estimate and control the errors of approximation; acquaint with the tools and techniques for analyzing regular multi-variable mappings and vector fields.