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②國玄東華大學

課 綱 Course Outline

應用數學系學士班

中文課程名稱 Course Name in Chinese		微積分(一)				
英文課程名稱 Course Name in English		Calculus (I)				
科目代碼 Course Code		AM10000	班 別 Degree	學士班 Bachelor's		
修別 Type		學程 Program	學分數 Credit(s)	4. 0	時 數 lour(s)	
先修課程 Prerequisite		Real numbers, Coordinate systems, Lines, Functions, Trigonometric function				
課程目標 Course Objectives						
學習極限,連續,導數,積分及它們的應用 (Study the limit, continuity, derivative, integration and their applications.)						
系教育目標 Dept.'s Education Objectives						
1 訓練嚴謹思考與推理能力。 To provide a solid training in rigorous thinking and reasoning ability,						
2	黄宁理协的雇用數與的其体知識。					
3	目供路領域學習作力。					
課え カッ 系事業能力 Cor				課程目標與系專業的 力相關性 Correlation between Course	נוע	
		Basic Learning Outo	comes		Objectives and Dept.'s Education Objectives	'n
A	數學科學組: 具備基本數學知識及邏輯推理能力。 Have well-founded background in mathematics and be capable of logical reasoning,					
1	統計組: 具備基本數學知識 Have well-founde logical reasonin	ed background in mathe	matics and b	e capable of		

數學科學組:

具備學習數學相關領域的預備知識。

Be knowledgeable about fields related to mathematics,

В

統計組:

具備機率、統計及相關領域的知識與應用能力。

Have the knowledge of probability and statistics and the related field, and the corresponding application ability,

數學科學組:

具備軟體應用與科學計算能力。

Be able to use mathematics software and scientific computation skill in problem-solving.

C

統計組:

具備軟體應用與統計計算能力。

Be able to use computer software for statistical computation in real applications.

圖示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately correlated

課程大綱

Course Outline

- 1. Limits and continuity of functions(函數的極限,連續)
- 2. The derivative and its applications. (導數及它的應用)
- 3. The integral and its applications. (積分及它的應用)

資源需求評估 (師資專長之聘任、儀器設備的配合···等)

Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

本系專任教師。

Faculties of applied math department.

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

上課講授,討論,作業,及期中、期末考

(Lectures, discussions, homework, midterm and final exams)

其他

Miscellaneous

撰寫人:應用數學系 黃延安

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