

應用數學系碩士班

107 學年度

最低修業年限	二年(特優者得申請一年畢業)
應修學分數	24 學分
應修 (應選) 課程及符合畢業資格之修課相關規定	<p>共同必修： 至少需通過二學期論文研討。</p> <p>個別必修： 分析與幾何組：1.實變函數論(一)(3學分) 2.下列課程擇一(3學分)：實變函數論(二)，常微分方程(一)，常微分方程(二)，偏微分方程(一)，偏微分方程(二)，近世代數(一)，近世代數(二)，高等機率論。</p> <p>組合數學組：1.離散數學專題至少需通過二次。 2.圖論一學期(3學分)，組合學導論一學期(3學分)，共6學分</p>
備註	<p>(1)入學第一學期結束前完成學術研究倫理教育課程</p> <p>(2)擔任教學獎助生應修習教學實務課程，至多採計1學分</p>

MS Program of the Department of Applied Mathematics

Academic Year 2018

Period of Study	two years (Students with outstanding academic performance may apply for graduation after the two-year study).
Graduation Credits	24 credits
Compulsory Courses and Graduation Requirements	<p>The Master degree course regulations in the department are as follows:</p> <p>(i) Common Requirement: passing the “Colloquium” at least twice.</p> <p>(ii) Individual Requirements:</p> <p>(a) “Analysis and Geometry” program: Passing the course “Real Analysis(I)” which is of 3 credits. Passing one of the following 3 credits courses: Real Analysis(II), Ordinary Differential Equations (I), Ordinary Differential Equations (II), Partial Differential Equations (I), Partial Differential Equations (II), Modern Algebra(I), Modern Algebra(II), Advanced Probability.</p> <p>(b) “Combinatorics” program: Passing the course “Topics in Discrete Mathematics” at least twice; passing the course “Graph Theory” which is of 3 credits; passing the course “Introduction to Combinatorics” which is of 3 credits.</p>
Remarks	<p>1. Students should study “Academic Ethics Education” program before the end of the first semester after enrollment.</p> <p>2. Students who serve Teaching Assistant should study “Teaching Technique Course” And at most one credit of the course will be counted for graduation credits.</p>

應用數學系博士班

107 學年度

最低修業年限	三年(特優者得申請二年畢業)
應修學分數	18 學分
直升博士生 應修學分數	碩士生逕行修讀博士學位，必須修滿 30 學分，學士生逕行修讀博士學位，必須修滿 36 學分。
應修（應選）課程及 符合畢業資格之修課 相關規定	<p>1.至少須選修本系所開課程 12 學分。</p> <p>2.必修課程</p> <p style="padding-left: 20px;">共同必修：至少需通過4學期論文研討。</p> <p style="padding-left: 20px;">個別必修：</p> <p style="padding-left: 40px;">分析與幾何組：實變函數論二學期，共6學分。</p> <p style="padding-left: 40px;">組合數學組：圖論一學期(3學分)，組合學導論一學期(3學分)，共6學分 及離散數學專題至少需通過4次。</p> <p style="padding-left: 40px;">數學建模與科學計算組：應用數學方法一學期(3學分)， 科學計算導論一學期(3學分)，共6學分。</p> <p>3.英文規定必須通過下列三項之一：</p> <p style="padding-left: 20px;">(1)曾參加 TOEFL 考試 61 分（滿分 120）以上或 Paper-based TOEFL 500 分或 CBT-TOEFL 173 分。</p> <p style="padding-left: 20px;">(2)通過全民英檢中高級初試（含）以上。</p> <p style="padding-left: 20px;">(3)曾獲國科會千里馬計劃補助至非華語系國家出國進修半年(含)以上。</p> <p style="padding-left: 20px;">(4)修習本校科技英文或論文寫作或讀、寫類之英文課程達 2 學分，且成績達 70 分以上。</p>
備註	<p>1.若於碩士班已修過並及格之實變函數論可向系上申請免修</p> <p>2.入學第一學期結束前完成學術研究倫理教育課程</p> <p>3.擔任教學獎助生應修習教學實務課程，至多採計 1 學分</p>

Ph.D Program of Department of Applied Mathematics

Academic Year 2018

Period of Study	three years (Students with outstanding academic performance may apply for graduation after the two-year study.)
Graduation Credits	18 credits
Compulsory Courses and Graduation Requirements	<p>1. Students have to complete at least 18 credits which is include 12 credits must earned from department.</p> <p>2. Compulsory Courses: Compulsory Courses: passing the “Colloquium” at least four times.</p> <p>Individual Requirements: Analysis and Geometry program: passing a two-semester course sequence in “Real Analysis” which is of 6 credits. Combinatorics program: passing the course “Topics in Discrete Mathematics” at least four times; passing the course “Graph Theory” which is of 3 credits; passing the course “Introduction to Combinatorics” which is of 3 credits.</p> <p>Mathematical Modeling and Scientific Computing program: passing each a semester course sequence in “Methods of Applied Mathematics” and in “Introduction to Scientific Computing” which is of 6 credits.</p>
Other Requirements	<p>1.Students who have passing the course sequence in “Real Analysis” can apply for exemption.</p> <p>2.Students should study “Academic Ethics Education” program before the end of the first semester after enrollment.</p> <p>3.Students who serve Teaching Assistant should study “Teaching Technique Course” and at most one credit of the course will be counted for graduation credits.</p>