

運輸與物流管理學系碩士班修課規定
107 學年度

最低修業年限	一年
應修學分數	30 學分(不含專題研討及個別研究學分)
應修(應選)課程及符合畢業資格之修課相關規定	<p>一.須修習專題研討課程四次。提早畢業者不在此限，但其在學期間每學期必須依規定修習專題研討並及格。</p> <p>二.「專題研討」課程須依據考取之校區選擇上課地點。</p> <p>三.本系碩士班研究生必須完成修習本系碩士班開授課程21學分，且滿足下列要求，始符合畢業之條件(含各組核心課程9學分、統計與資料分析3學分、最佳化3學分)。</p> <p>1.交通運輸碩士班(運輸規劃與政策組) 核心課程四門選三門</p> <p style="margin-left: 20px;">(1) 運輸計畫評估</p> <p style="margin-left: 20px;">(2) 運輸經濟與政策</p> <p style="margin-left: 20px;">(3) 永續運輸規劃</p> <p style="margin-left: 20px;">(4) 運輸風險管理</p> <p>2.交通運輸碩士班(運輸營運與科技組) 核心課程四門選三門</p> <p style="margin-left: 20px;">(1) 運輸系統分析</p> <p style="margin-left: 20px;">(2) 運輸需求分析</p> <p style="margin-left: 20px;">(3) 智慧型運輸系統</p> <p style="margin-left: 20px;">(4) 運輸安全</p> <p>3.物流管理碩士班核心課程四門選三門</p> <p style="margin-left: 20px;">(1) 運輸與配送物流最佳化</p> <p style="margin-left: 20px;">(2) 海空運與複合運輸最佳化</p> <p style="margin-left: 20px;">(3) 全球供應鏈管理</p> <p style="margin-left: 20px;">(4) 物流作業規劃模式</p> <p style="margin-left: 40px;">(I) 統計與資料分析五門選一門</p> <p style="margin-left: 60px;">(1) 運輸計量分析</p> <p style="margin-left: 60px;">(2) 多變量分析與應用</p> <p style="margin-left: 60px;">(3) 系統模擬</p> <p style="margin-left: 60px;">(4) 資料科學方法</p> <p style="margin-left: 60px;">(5) 巨量資料分析</p> <p style="margin-left: 40px;">(II) 最佳化三門選一門</p> <p style="margin-left: 60px;">(1) 網路模式分析</p> <p style="margin-left: 60px;">(2) 數學規劃</p> <p style="margin-left: 60px;">(3) 啟發式解法</p> <p>四.擔任教學獎助生應修習教學實務課程，至多採計1學分並列入畢業學分之選修課程，修習1學分的教學實務課程將免收學分費。</p>

Master of Department of Transportation and Logistics Management
Academic Year 2018

Minimum Term of Study	One Year
Minimum Credits	30 Credits
Curriculum and Regulations	<ol style="list-style-type: none"> 1. Four seminars. Students who graduate early do not follow the regulation, but they should complete and pass the seminar for each semester during the master's program. 2. Although the department seminars are offered in both Taipei and Hsinchu campuses, students are required to take the seminar course at the campus where they are enrolled in. 3. TLM master's students should complete 21 credits of the courses offered by the graduate institute of TLM. Besides, they should also fulfill the following graduate requirements (including 9 credits of Core courses, 3 credits of Statistical and Data Analysis related courses, and 3 credits of Optimization related courses): <ol style="list-style-type: none"> (1). Core courses: <ol style="list-style-type: none"> (I) Graduate Program in Traffic and Transportation (in Transportation Planning and Policies Study) Three of the following four professional courses should be selected: <ol style="list-style-type: none"> (1) Transportation Projects Evaluation (2) Transportation Economics and Policy (3) Sustainable Transportation Planning (4) Transportation Risk Management (II) Graduate Program in Traffic and Transportation (in Transportation Operation and Technology Study) Three of the following four professional courses should be selected: <ol style="list-style-type: none"> (1) Transportation System Analysis (2) Travel Demand Analysis (3) Intelligent Transportation Systems (4) Transportation Safety (III) Graduate Program in Logistics Management Three of the following four professional courses should be selected: <ol style="list-style-type: none"> (1) Transportation and Distribution Optimization (2) Maritime, Air and Intermodal Transportation Optimization (3) Global Supply Chain Management (4) Logistics Operation Planning Models (2). Statistical and Data Analysis related courses: One of the following five professional courses should be selected: <ol style="list-style-type: none"> (1) Transportation Econometrics (2) Multivariate Analysis (3) System Simulation (4) Data Science Methods (5) Big Data Analytics (3). Optimization related courses: One of the following three professional courses should be selected: <ol style="list-style-type: none"> (1) Network Modeling Analysis (2) Mathematical Programming (3) Heuristics 4. A student being a teaching assistant and receiving scholarship should take the course "Teaching Technique Practice", which is a one credit course, and the credit is counted towards the elective course credit for graduation requirement. The tuition is waived for this credit course.