

**運輸與物流管理學系碩士班修課規定**  
108 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>(1) 運輸計畫評估</p> <p>(2) 運輸經濟與政策</p> <p>(3) 永續運輸規劃</p> <p>(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>(1) 運輸系統分析</p> <p>(2) 運輸需求分析</p> <p>(3) 智慧型運輸系統</p> <p>(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>(1) 運輸與配送物流最佳化</p> <p>(2) 海空運與複合運輸最佳化</p> <p>(3) 全球供應鏈管理</p> <p>(4) 物流作業規劃模式</p> <p>( I ) 統計與資料分析四門選一門</p> <p>(1) 運輸計量分析</p> <p>(2) 多變量分析與應用</p> <p>(3) 資料科學方法</p> <p>(4) 巨量資料分析</p> <p>( II ) 最佳化三門選一門</p> <p>(1) 網路模式分析</p> <p>(2) 數學規劃</p> <p>(3) 啟發式解法</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	<p>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.</p> <p>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.</p> <p>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):</p> <p>(1). Core courses:</p> <p style="padding-left: 20px;">(I) Graduate Program in Traffic and Transportation (in Transportation Planning and Policies Study) Three of the following four professional courses should be selected:</p> <p style="padding-left: 40px;">(1) Transportation Projects Evaluation (2) Transportation Economics and Policy (3) Sustainable Transportation Planning (4) Transportation Risk Management</p> <p style="padding-left: 20px;">(II) Graduate Program in Traffic and Transportation (in Transportation Operation and Technology Study) Three of the following four professional courses should be selected:</p> <p style="padding-left: 40px;">(1) Transportation System Analysis (2) Travel Demand Analysis (3) Intelligent Transportation Systems (4) Transportation Safety</p> <p style="padding-left: 20px;">(III) Graduate Program in Logistics Management Three of the following four professional courses should be selected:</p> <p style="padding-left: 40px;">(1) Transportation and Distribution Optimization (2) Maritime, Air and Intermodal Transportation Optimization (3) Global Supply Chain Management (4) Logistics Operation Planning Models</p> <p>(2). Statistical and Data Analysis related courses: One of the following four professional courses should be selected:</p> <p style="padding-left: 20px;">(1) Transportation Econometrics (2) Multivariate Analysis and Application (3) Data Science Methods (4) Big Data Analytics</p> <p>(3). Optimization related courses: One of the following three professional courses should be selected:</p> <p style="padding-left: 20px;">(1) Network Modeling Analysis (2) Mathematical Programming (3) Heuristics</p>