**元智大學　資訊管理學系碩士班**

**資訊管理組(國際雙聯學位)　必選修科目表**

**Master Program of Information Management Department at Yuan Ze University**

 **Information Management Track (International Dual Degree)**

**List of Required and Elective Courses**

**（105學年度入學新生適用Academic Year 2016. Sept.~）**

105.04.20 一○四學年度第五次教務會議通過

Passed by the 5th Academic Affairs Meeting, Academic Year 2016, on April 20, 2016

|  |  |  |
| --- | --- | --- |
|  學年Academic Year學期Semester科目Subject | 第一學年 1st Academic Year | 第二學年 2nd Academic Year |
| 上(台灣)Fall (Taiwan) | 下(台灣) Spring (Taiwan) | 澳洲西雪梨大學(UWS, Australia) |
| 必選修科目Compulsory & Elective（48） | 資訊管理專題（Seminar on Information Management）IM520（3） | 企業管理專題（Seminar on Business Administration）IM518（3） | Qualification for this award requires the successful completion of 80 credit points which include the units listed below. **General Foundation Units (40CP)** 可申請抵免1. The Contemporary Business Environment
2. Business Communication Skills
3. Understanding Contemporary Organisations
4. Integrated Business Experience 1

**Core Units (40CP)** 可申請抵免1. Financial Reports for Decision Making
2. Contemporary People Management
3. Integrated Business Experience 2
4. Economics PG

**Specialist Knowledge Units (60CP)*** Finance and Investment
* Hospitality and Tourism
* Human Resources Management
* Information and Communications Technology
* Innovation and Entrepreneurship
* Logistics and Supply Chain Management
* Management
* Marketing
* Property
* Sustainable Business

**Capstone Units (20CP)**1. Business Project OR Internship
 |
| 人力資源管理（Human Resource Management）IM533（3） |  |
| 行銷管理Marketing ManagementIM569(3) |  |
|  |  |
|  |  |
|  |  |
|  |  |
| 學分小計Credits each  | 12 + 12選修(註2) | 24 (80 CP) |
| 備註Remarks全文完 | 1.畢業最低總學分數為48學分，另加碩士論文一篇。Students must take a minimum of 48 credits and complete one master thesis for graduation.2.選修課程需於附表-元智大學資訊管理學系碩士班資訊管理組(國際雙聯學位)選修科目表中任選12學分。Student must at least take and complete 12 credits out of the elective courses listed in the attached file, named the “Master Program of Information Management Department at Yuan Ze University Information Management Track (International Dual Degree) List of Elective Courses”.3.須配合「澳洲西雪梨大學」Quarter制入學修課時間。Please make sure that you begin the program in accordance to the Quarter sessions of UWS.4.學生應於元智大學資管系碩士班成功完成第一學期的課程要求，始得向UWS申請。Only if students have successfully completed the courses required in the Fall semester can they begin to apply for the course at UWS.5.澳洲西雪梨大學之授予學位與修課要求，悉依照入學年度西雪梨大學的規定辦理。The awarded degree and course requirements of UWS should follow the rule of admission year.6.研究生須依本校學術研究倫理教育課程實施要點規定，於入學第一學期結束前完成學術研究倫理教育課程，最遲須於申請學位口試前補修完成，未完成本課程，不得申請學位口試。For those graduate students who shall complete Academic Research Ethics Education Course before the end of their first academic semester, they must follow the regulations of Yuan Ze University Academic Research Ethics Education Course Implementation Highlights. The latest deadline for them shall be their course completions and then their applications towards the degree’s oral exam. |

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| 課號 | 中文課名 | 英文課名 | 學分數 |
| --- | --- | --- | --- |
| IM514 | 企業研究方法 | Business Research Methodology | 3 |
| IM516 | 網際網路行銷學 | Internet Marketing | 3 |
| IM522 | 金融決策支援系統 | Financial Decision Support Systems | 3 |
| IM526 | 作業流程管理專題研討 | Topics in Work Flow Management | 3 |
| IM527 | 電子商務專題研討 | Topics in Electronic Commerce | 3 |
| IM533 | 人力資源管理 | Human Resource Management | 3 |
| IM539 | 醫療資訊系統 | Health Information Systems | 3 |
| IM540 | 組織理論與管理 | Organization Theory and Management | 3 |
| IM546 | 物流資訊系統 | Information Systems for Supply Chain Management | 3 |
| IM547 | 資訊技術管理專題 | Seminar on Information Technology and Management | 3 |
| IM548 | 系統評估與分析 | System Evaluation and Analysis | 3 |
| IM551 | 供應鏈管理 | Supply Chain Management | 3 |
| IM553 | 商業智慧 | Business Intelligence | 3 |
| IM554 | 財務管理 | Financial Management  | 3 |
| IM559 | 投資管理 | Investment Management | 3 |
| IM561 | 顧客關係管理 | Customer Relationship Management | 3 |
| IM564 | 電子化企業管理 | E-Business Management | 3 |
| IM566 | 知識管理 | Knowledge Management | 3 |
| IM572 | 專案管理 | MIS Professional Study | 3 |
| IM574 | 電子化企業專題研討 | Topics in E-Business | 3 |
| IM576 | 軟體工程 | Software Engineering | 3 |
| IM579 | 企業倫理 | Business Ethics | 3 |
| IM587 | 醫療資訊專題 | Special Topics on Medical Informatics | 3 |
| IM569 | 行銷管理 | Marketing Management | 3 |
| IM580 | 危機管理 | Crisis Management | 3 |
| IM588 | 創業管理實務 | Entrepreneurship | 3 |
| IM604 | 策略性資訊系統 | Strategic Information Systems | 3 |
| IM613 | 專案管理專題研討 | Seminar on Project Management | 3 |
| IM616 | 生理訊號之臨床應用 | Clinical Application of Biophysioloical signals | 3 |
| IM504 | 智慧型管理系統 | Intelligent Management Systems | 3 |
| IM507 | 決策支援系統 | Decision Support Systems | 3 |
| IM523 | 電腦模擬 | Computer Simulation–System Modeling and Analysis | 3 |
| IM525 | 計算與機率式學習及其應用 | Computational Learning , Probabilistic Learning and Their Applications | 3 |
| IM528 | 網路應用與管理 | Network Application and Management | 3 |
| IM529 | 物件導向技術 | Object-Oriented Technology | 3 |
| IM530 | 類神經網路及其應用 | Artificial Neural Networks and Their Applications | 3 |
| IM531 | 問題解決與決策 | Problem Solving and Decision Making | 3 |
| IM532 | 知識探勘與資料剖析 | Knowledge Discovery and Data Mining  | 3 |
| IM534 | 基因演算法則 | Genetic Algorithms | 3 |
| IM535 | 計算式智慧專題 | Topics in Computational Intelligence  | 3 |
| IM536 | 高等演算法 | Advanced Computer Algorithms | 3 |
| IM541 | 物件關聯式資料庫管理系統 | Object-Oriented Relational Database Systems  | 3 |
| IM542 | 模糊系統理論及應用 | Fuzzy Systems Theory and applications | 3 |
| IM545 | 資料倉儲 | Data Warehousing | 3 |
| IM549 | 案例庫推理 | Case-Based Reasoning | 3 |
| IM552 | 資訊網路專題 | Topics in Computer Networks | 3 |
| IM555 | 多變量分析 | Multivariate Analysis | 3 |
| IM556 | 模糊資料庫 | Fuzzy Database | 3 |
| IM557 | 組合最佳化 | Combinatorial Optimization | 3 |
| IM558 | 生物資訊專題 | Bio-informatics | 3 |
| IM562 | 基因規劃 | Genetic Programming | 3 |
| IM563 | 平行與分散式系統 | Parallel and Distributed Systems | 3 |
| IM570 | 生產與作業分析 | Production and Operations Analysis | 3 |
| IM573 | 數位影像技術 | Digital Image Processing | 3 |
| IM577 | 多媒體技術與應用 | Multimedia Technology and Application | 3 |
| IM578 | 全球資訊網技術 | Web Technologies | 3 |
| IM585 | 資訊科技專題 | Seminar on Information Technology | 3 |
| IM586 | 模糊動態系統 | Fuzzy Dynamical Systems | 3 |
| IM589 | 啓發式最佳化 | Heuristic Optimization | 3 |
| IM590 | 分散式資料庫系統 | Distributed Database Systems | 3 |
| IM603 | 管理決策模式與分析 | Modeling and Analysis for Managerial Decision Making | 3 |
| IM614 | 資訊擷取 | Information Retrieval | 3 |
| IM615 | 矩陣分析 | Matrix Analysis | 3 |
| IM617 | 雲端計算原理 | The Principle of Cloud Computing | 3 |
| IM618 | 雲端醫療服務與數位學習產業學堂專題講座 | Seminar for Cloud Computing | 1 |
| IM619 | 多準則決策與分析 | Multiple Criteria Decision Making and Analysis | 3 |
| IM620 | 資訊安全 | Information Security | 3 |
| IM621 | 決策理論 | Decision Theory | 3 |
| IM622 | 決策分析 | Decision Analysis | 3 |
|  | 地理資訊系統 | Geographic Information Systems | 3 |
| IM811 | 社會變遷與創新 | Social Transformation and Creative Destruction | 3 |
| IM812 | 發展經濟學 | Economics of Development | 3 |
| IM813 | 社會企業與領導 | Social Entrepreneurs and Leadership | 3 |
| IM814 | 非營利與社會企業市場策略 | Marketing Strategies for Nonprofits and Social Enterprises | 3 |
| IM815 | 微型金融與發展 | Microfinance and Development | 3 |
| IM816 | 社會創新影響：醫療與社會服務專題 | Impact of Social Innovation : Health, Care and Social Service | 3 |
| IM817 | 社會創新影響：環境生態專題 | Impact of Social Innovation : Environment and Ecology | 3 |
| IM818 | 全球化與產業發展 | Globalization and Industry Development | 3 |
| IM819 | 管理經濟學 | Managerial Economics | 3 |
| IM831 | 資訊倫理 | Information Ethics | 3 |
| IM832 | 數位匯流與法律 | Digital Convergence and Law | 3 |
| IM833 | 智慧財產權法 | Intellectual Property Law | 3 |
| IM834 | 後現代理論與資訊社會專題討論 | Seminar on Theories of Postmodernism and Information Society | 3 |
| IM835 | 數位落差專題 | Seminar in Digital Divide | 3 |
| IM836 | 資訊法律專題 | Seminar on Information Law | 3 |
| IM837 | 數位內容產業專題 | Seminar on Digital Content Industry | 3 |
| IM838 | 數位治理 | Digital Governance | 3 |
| IM711 | 資料儲存與擷取 | Storing and Retrieving Data | 3 |
| IM712 | 機器學習  | Machine Learning  | 3 |
| IM713 | 資料視覺化應用 | Data Visualization | 3 |
| IM714 | 大數據倫理與法律專題 | Ethical and Legal Issues in Big Data | 3 |
| IM715 | 資料科學統整專題 | Data Science Capstone Course | 3 |
| IM716 | 機器學習 II (預測模型) | Machine Learning II (Predictive Modelling) | 3 |
| IM717 | 社群網絡資料分析 | Social Network Data Analytics | 3 |
| IM718 | 文本與網頁分析 | Text and Web Analytics | 3 |
| IM719 | 行銷資料分析 | Marketing Data Analytics | 3 |
| IM720 | 金融資料分析 | Financial Data Analytics | 3 |
| IM721 | 醫療資料分析 | Medical and Healthcare Data Analytics | 3 |
| IM722 | 消費者行為資料分析 | Consumer Behavior Data Analytics | 3 |
| IM723 | 透明化政府專題 | Government Open Data Issues | 3 |
| IM724 | 進階數據分析 | Advanced Data Analytics | 3 |
| IM725 | 製造與運籌資料分析 | Manufacturing and Logistics Data Analytics | 3 |
| IM726 | 巨量資料程式設計 | Big Data Programming | 3 |
| IM568 | 專業研習 | MIS Professional Study | 3 |

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**Appendix：**Master of Business and Administration Program Structure

**General Foundation Units (40CP)**

1. The Contemporary Business Environment
2. Business Communication Skills
3. Understanding Contemporary Organisations
4. Integrated Business Experience 1

**Core Units (40CP)**

1. Financial Reports for Decision Making
2. Contemporary People Management
3. Integrated Business Experience 2
4. Economics PG

**Specialist Knowledge Units (60CP)**

|  |  |
| --- | --- |
| **Finance and Investment**(60CP) | Corporate Finance Financial Institutions and Markets (MAF) International Finance Security Analysis and Portfolio Theory Property Investment Analysis Property Portfolio Analysis  |
| **Hospitality and Tourism**(60CP) | Gastronomy and the Food and Beverage ExperienceFacilities and Venue ManagementTourism ManagementEvent ManagementHospitality and Tourism In SocietyStrategic Marketing for Hospitality and Tourism |
| **Human Resources Management**(60CP) | Industrial Relations and Workplace ChangeStrategic Employment RelationsEmployment Relations Professional PracticeReward ManagementDeveloping Human Capital and Organisational CapabilityDiversity, Labour Markets and Workforce Planning |
| **Information and Communications Technology** (60CP) | Programming Proficiency Advanced Topics in User System Interaction Systems Analysis and Database Management Systems Network Technologies Choose any one 1. Web Technologies
2. Mobile Computing
3. Intelligent Agents for E-Markets

Choose any one 1. Content Management Systems & Web Analytics
2. Big Data (PG)
3. Cloud Computing
4. Workflow Management Systems
 |
| **Innovation and Entrepreneurship**(60CP) | Innovation for New MarketsInnovation, Creativity and ForesightNew Venture FinanceEntrepreneurial Management CapabilitiesInnovation through Digital TechnologyGovernance, Ethics and Social Entrepreneurship |
| **Logistics and Supply Chain Management**(60CP) | Project ManagementSupply Chain ManagementPurchasing and Materials ManagementCompliance ManagementLogistics Processes In ErpBusiness Operations and Logistics |
| **Management**(60CP) | Managing In The Global ContextStrategic Business ManagementCompliance ManagementLeading Contemporary OrganisationsInnovation, Creativity and ForesightGovernance, Ethics and Social Entrepreneurship |
| **Marketing**(60CP) | Marketing SystemsBuyer BehaviourApplied Marketing SolutionsIntegrated Brand ManagementBusiness MarketingStrategic Marketing For Managers |
| **Property** (60CP) | Property Valuation Property Finance and Taxation Property Feasibility Study Property Investment Analysis Property Development Property Portfolio Analysis  |
| **Sustainable Business** (60CP) | Creating Sustainable OrganisationsBusiness, Society and the EnvironmentSocial and Environmental AccountingGovernance, Ethics and Social EntrepreneurshipDeveloping Sustainable PlacesInnovation, Creativity and Foresight |

**Capstone Units (20CP)**

1. Business Project OR Internship