**元智大學資訊學院英語學士班 必修科目表**

**International Bachelor Program in Informatics**

**Yuan Ze University**

**List of Required Courses**

**（106學年度入學新生適用Academic Year 2017）**

106.01.18 一○五學年度第三次教務會議通過

Passed by the 3rd Academic Affairs Meeting, Academic Year 2016, on January 18, 2017

106.06.21 一○五學年度第六次教務會議修訂通過

Amended by the 6th Academic Affairs Meeting, Academic Year 2016, on June 21, 2017

107.06.27 一○六學年度第六次教務會議修訂通過

Amended by the 6th Academic Affairs Meeting, Academic Year 2017, on June 27, 2018

108.05.01 一○七學年度第六次教務會議修訂通過

Amended by the 6th Academic Affairs Meeting, Academic Year 2018, on May 01, 2019

112.03.20 一一一學年度第五次教務會議通過

Amended by the 5th Academic Affairs Meeting, Academic Year 2022, on March 20, 2023

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| 學年Year  學期Semester  科目Course | | 第一學年1st Academic Year | | 第二學年2nd Academic Year | | 第三學年3rd Academic Year | | 學四學年4th Academic Year | |
| 上Fall | 下Spring | 上Fall | 下Spring | 上Fall | 下Spring | 上Fall | 下Spring |
| 共同  必修  科目  University  Compulsory  （23） | | 國文(一)  Chinese I  （2） | 國文(二)  Chinese II  （2） |  |  |  |  |  |  |
| 英語(一)  English (I)  （2） | 英語(二)  English (II)  （2） |  |  |  |  |  |  |
| 程式語言共4學分，依各院修課規則辦理。(開課名稱：基礎程式設計)  Fundamental Computer Programming is a four-credit course. For those who would like to registered “Fundamental computer programming”, he/she has to meet the college requirement. (Course Name: Fundamental Computer Programming) | | | | | | | |
| 「英語（一）」及「英語（二）」為基礎課程，共計二學期四學分。  English (I) and (II) are 4 credits elementary courses for the freshmen to complete within two semesters.  除了「英語（一）」及「英語（二）」外，應修習**主題式英語課程**三學期六學分，  其中二學分須來自「口語英文溝通」及二學分來自「實用英文寫作」，畢業前需修畢三個不同英語課程，始取得畢業資格。  Except English (I) and English (II), Students are required to obtain 6 credits from 3 different thematic courses before graduation. Among them must include a two-credit course “Oral English Communication” and a two-credit course “Practical English Writing”.  大一英語能力後測TOEIC模擬測驗成績未達350分者，應修習「應試加強班」，修習「應試加強班」期間之期末TOEIC模擬測驗成績未達350分者，則該科成績將「不及格」，並應再次修習「應試加強班」，直到取得TOEIC模擬測驗分數達350分(含)始得修習其他主題式英語課程。  The “English Testing” course is provided to students who fail to score 350 in a TOEIC mock held in the end of their first academic year. They will need to take the exam again after the course and pass; otherwise, they will need to take another “English Testing” course next semester.  英語檢定（2）、經典五十（2）、服務學習（1）  English Testing（2）、Fifty Canonized Books（2）、Service Learning（1） | | | | | | | |
| 體育  Physical Education  (0) | 體育  Physical Education  (0) | 體育  Physical Education  (0) | 體育  Physical Education  (0) |  |  |  |  |
| 體育除修習大一至大二4個學期外，另需通過「游泳能力檢定」及「心肺適能檢定」等二項檢測，列為畢業門檻。  Beside taking PE courses for 4 semesters (Year 1 to 2), students must pass both swimming and cardiopulmonary function tests. | | | | | | | |
| ★通識教育科目  General  Education  （10） | | 通識課程分為人文藝術﹑自然科學、社會科學及生命科學四大類。學生須於四領域中各選修兩學分課程，共計8學分，其餘2學分學生可自由選擇，由通識講座課程、微課自主學習或通識四大領域課程中選課。  The General Education program comprises four categories：Humanities, Natural Science, Social Science and Life Science. Students are required to take a two-credit course from each category to get eight credits before graduation. The rest two credits can be chosen from the General Education Lecture course, Micro Credit and Self-Study course or four categories upon their needs. | | | | | | | |
| 學  士  班  必  修  科  目  Required Courses  (69) | 核心  必修  Required Core Courses  (48) | ★微積分(一)  Calculus(I)  IN101(3) | ★微積分(二)  Calculus(II)  IN105(3) | ★線性代數  Linear Algebra  IN201(3) | ★機率與統計  Probability and Statistics  IN207(3) | ★計算機  網路概論  Introduction to Computer Networks  IN301(3) | ★軟體工程  Software Engineering  IN305(3) | ★資料庫  系統概論  Introduction to Database System  IN401(3) |  |
| ★資訊概論  Introduction to Computer Science  IN102(3) | ★離散數學  Discrete Mathematics  IN106(3) | ★資料結構  Data Structures  IN202(3) | ★演算法概論  Introduction to Algorithms  IN208(3) |  | 專業實習(一)  Practical Training(I)  IN421(3) | 專業實習(三)  Practical Training(III)  IN423(3) |  |
| ★程式設計(一)  Computer Programming(I)  IN103(3) | ★程式設計(二)  Computer Programming(II)  IN107(3) |  | ★作業系統概論  Introduction to Operating System  IN209(3) |  | 專題製作(一)  Special Project(I)  IN431(3) | 專題製作(二)  Special Project(II)  IN432(3) |  |
| 學分  Credit | 9 | 9 | 6 | 9 | 3 | 6 | 6 |  |
| 專業  必選修  Selective Required  Courses  (21) | 智慧財產權  Intellectual Property  IN104(3) | 管理資訊系統(一)  Management Information Systems（I）  IN108(3) | 資料通訊概論  Introduction to Data Communications  IN203(3) | 組合語言與計算機組織  Assembly Language and Computer Organization  IN210(3) | 編譯程式概論  Introduction to Compiler  IN302(3) | 管理資訊系統(二)  Management Information Systems (II)  IN306(3) | 電腦與網路安全概論  Introduction to Computer and Network Security  IN402(3) |  |
|  | 行銷傳播  Marketing Communications  IN109(3) | 數位系統設計  Digital System Design  IN204(3) | 資訊隱私  Information Privacy  IN211(3) | 內嵌式系統設計與實習  Embedded System Design and Practice  IN303(3) | 行動裝置視覺介面設計  User-Interface Design for Mobile Device  IN307(3) | 決策支援系統  Decision Support Systems  IN403(3) |  |
|  |  | 管理學  Management  IN205(3) | 網頁程式設計  Web Programming  IN206(3) | 服務與科技管理  Service and Technology Management  IN304(3) |  | 行銷管理  Marketing Management  IN404(3) |  |
| 備註  Remarks | 除核心必修科目外，必須修習資工、資管、資傳系所開設之其他英語授課課程，共計21學分。  In addition to the required core courses, students must take 21 credits of other English-taught courses offered by the Dept. of Computer Science and Engineering or Dept. of Information Management or Dept. of Information Communication. | | | | | | | |
| 檢定Testing  （0） | | 程式能力檢定  Programming Language Proficiency Testing  IN420(0) | | | | | | | |
| 備註  Remarks  全文完 | | 1.畢業學分：128學分。其中須包含共同必修及通識課程共33學分、學士班必修科目69學分、學士班選修科目26學分。學士班選修科目26學分中，至少12學分必須選修本校資訊學院所屬系所課程。國外交換學習期間所取得學分依實際情形申請抵修必修、專業必選修、選修課程，不限學分數。  Minimum credits required for a Bachelor of Science degree: 128 credits, including 33 credits from common required courses and general education, 69 credits from required courses, and 26 credits from electives. Among the 26 credits from electives, at least 12 credits must be obtained from the courses offered by the programs or departments within the College of Informatics. The credits obtained from the courses taken by a student during her/his exchange study at a cooperated institution may be used to substitute any courses offered by this program.  2.英語授課以「★」表示，包含通識教育科目10學分、學士班核心必修42學分及專業必選修21學分。  「★」：The credits granted by English-taught courses include 10 credits from General Education, 42 credits from required core courses and 21 credits from selective required courses.  3.「程式能力檢定」課程及格標準：參加「大學程式能力檢定（Collegiate Programming Examination-CPE）」，一次答對2題或累計答對3題。  Programming proficiency test requirement: take the Collegiate Programming Examination (CPE) and answer two questions correctly at a time or answer three questions correctly accumulatively.  4.專業實習與專題製作兩系列課程至少須選修一系列之所有課程：  Students must either take Practical Training or Special Project, as well as the series of courses related to it:  (1)專業實習（校外）共10門課，包括專業實習（一）至專業實習（十）。  Practical Training (off-campus) consists of 10 courses: Practical Training (I) through (X).  國外實習每滿4週(每週工作五天)，可取得3學分，但每満16週可取得16學分，最多以18學分為限。國外實習週數可以分段累積，每一段至少連續4週，取得學分可依累積週數計算。學生必須至少取得專業實習課程12學分，其中須包含專業實習(一)與專業實習（三）兩必修課程之學分以及專業實習(二)與專業實習(四)兩選修課程之學分。學生可依序選修專業實習(五)至專業實習(十)之課程以取得更多專業實習學分。若國外實習所取得學分數少於12，學生可以國內專業來取得所需學分，其規定依本學士班實習辦法辦理，唯實習期滿每一暑假或每滿一學期可取得6學分，未滿一暑假或一學期，則不計學分。國內實習最多以取得12學分為限。國內實習學分與國外實習學分總和以不超過18學分為限。  A student can obtain 3 credits for every four weeks (five working days per week) of practical training carried out in a foreign country or region. However, a student can obtain 16 credits for every 16 weeks of foreign practical training, and totally up to 18 foreign practical training credits. The credits can be granted based on the accumulated duration of foreign practical training. A minimum duration should last at least four consecutive weeks. A student must obtain at least 12 credits from Practical Training (I), (II), (III), and (IV). If a student would like to earn more than 12 practical training credits, he/she should take Practical Training (V) through (X). If the number of credits obtained from foreign practical training is less than 12, a student must take local practical training to obtain enough credits. Students should refer to the related regulations for details. Note that the duration of local practical training is either a whole summer break (10 weeks) or a whole semester (18 weeks). A student can earn three credits from completing a whole summer or a whole semester of local practical training. A student can obtain at most 12 credits from foreign practical training. The total credits earned form foreign and local practical training cannot exceed 18 credits.  (2)專題製作（校內）共2門課，包括專題製作（一）、專題製作（二）。  Special Project (on-campus) consists of two courses, Special Project (I) and (II).  專題製作課程依本學士班專題製作相關規定辦理。  Students must refer to the regulations for Special Project courses for details.  5.「專業實習（三）」與「專題製作（二）」為終端學習課程。  The experiential learning courses:“Practical Training (III)” and “Special Project (II)” .  6.有關共同必修及通識教育科目之詳細規定，另依據「元智大學共同必修科目表」之規定辦理。  Please refer to Yuan Ze University Common Required Course List.  7.擋修規定(Pre-requisites)：  (1)「微積分（一）」成績達50分以上，始得修習「微積分（二）」。  Students must achieve a minimum score of 50 points in Calculus I before taking Calculus II.  (2)通過「程式能力檢定」者，始得修習「專題製作（一）」、「專題製作（二）」、「專業實習（一）」、「專業實習（二）」、「專業實習（三）」、「專業實習（四）」。  Students must pass the programming proficiency test requirement before taking Special Project I and II, or Practical Training. | | | | | | | |

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