

| | | | 一年級/1st year | | | | 二年級/2nd year | | | | 三年級/3rd year | | | | 四年級/4th year | | | | |
|--|---|--|---|---|---|--|---|--------------------------|---|--------------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|--|
| | | | 第一學期 1st semester | | 第二學期 2nd semester | | 第一學期 1st semester | | 第二學期 2nd semester | | 第一學期 1st semester | | 第二學期 2nd semester | | 第一學期 1st semester | | 第二學期 2nd semester | | |
| 類別 /Field | | 課程/學門Course Name | 科目名稱 Course Name | 學 分 數 credit | 科目名稱 Course Name | 學 分 數 credit | 科目名稱 Course Name | 學 分 數 credit | 科目名稱 Course Name | 學 分 數 credit | 科目名稱 Course Name | 學 分 數 credit | 科目名稱 Course Name | 學 分 數 credit | 科目名稱 Course Name | 學 分 數 credit | 科目名稱 Course Name | 學 分 數 credit | |
| 校訂必修 (通識教育課程26學分) School Compulsory Courses (26 credits) | 基本知能課程 (12學分) Fundamental courses (12 credits) | 外國語文學門(Q) Foreign Languages (Field Q) | 英文(一) English (I) | 2 | 英文(一) English (I) | 2 | (大二外文自由選) optional foreign language for sophomore year | 2 | (大二外文自由選) optional foreign language for sophomore year | 2 | | | | | | | | | |
| | | 語文表達 ABILITY OF EXPRESSING | 中國語文能力表達 ABILITY OF EXPRESSING IN SPOKEN AND WRITTEN CHINESE | 2 | | | | | | | | | | | | | | | |
| | | 學習與發展(N) Learning And Development (Field N) | 大學學習 LEARNING IN UNIVERSITY | 1 | | | | | | | | | | | | | | | |
| | | 課外活動與團隊發展(K) Extracurricular Activities and Team-Ship Development (Field K) | | | 社團學習與實作 LEARNING AND PRACTICE OF CLUBS | 1 | | | | | | | | | | | | | |
| | 通識核心課程 (12學分) General Education & Core Courses (12 credits) | AI 與程式語言 AI AND PROGRAMMING LANGUAGE | AI 與程式語言 AI AND PROGRAMMING LANGUAGE | 1 | | | | | | | | | | | | | | | |
| | | 探索永續 Exploring Sustainability | 探索永續 Exploring Sustainability | 1 | | | | | | | | | | | | | | | |
| | | 文學經典學門(L) Classics In World Literature (Field L) | 人文領域至少2學分 At least 2 credits in the Humanitie s field. | 自行上網選修 每學門至多修習2科4學分 Students may take up to 2 courses (4 credits) in each academic field. | | | | | | | | | | | | | | | |
| | | 歷史與文化學門(P) History And Culture (Field P) | | | | | | | | | | | | | | | | | |
| | | 哲學與宗教學門(V) Philosophy and Religion (Field V) | | | | | | | | | | | | | | | | | |
| | | 藝術欣賞與創作學門(M) Arts Appreciation and Invention(Field M) | | | | | | | | | | | | | | | | | |
| | | 全球視野學門(T) Global Outlook (Field T) | 社會領域至少2學分 At least 2 credits in the Social Sciences field. | | | | | | | | | | | | | | | | |
| | | 未來學學門(R) Futures Studies (Field R) | | | | | | | | | | | | | | | | | |
| | | 社會分析學門(W) Social Analysis (Field W) | | | | | | | | | | | | | | | | | |
| | | 公民社會及參與學門(S) Civil Society And Participation (Field S) | 科學領域至少2學分 At least 2 credits in the Science field. | | | | | | | | | | | | | | | | |
| | 資訊教育學門(O) Information & Computer Education(Field O) | | | | | | | | | | | | | | | | | | |
| | 全球科技革命學門(Z) Global Technology Revolution (Field Z) | | | | | | | | | | | | | | | | | | |
| | 自然科學學門(U) Natural Sciences (Field U) | | | | | | | | | | | | | | | | | | |
| | 服務與活動 課程 Service and Extra-curricular Activities | 體育 Physical Education | 不計入畢業學分 Not counted toward graduation credits | 體育 Physical Education | 1 | 體育 Physical Education | 1 | 體育 Physical Education | 1 | 體育 Physical Education | 1 | | | | | | | | |
| | | 全民國防教育軍事訓練（一）-國防科技 All-Out Defense Education Military Training and Nursing | 0學分 zero credits | 全民國防教育軍事訓練（一）-國防科技 All-Out Defense Education | 0 | | | | | | | | | | | | | | |
| | | 校園與社區服務學習 Campus and Community Service-Learning | 2學分,計入畢業學分 2 credits, counted toward graduation credits. | 校園與社區服務學習 Campus and Community Service-Learning | 1 | 校園與社區服務學習 Campus and Community Service-Learning | 1 | | | | | | | | | | | | |

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| | | 第一學期 1st semester | | 第二學期 2nd semester | | 第一學期 1st semester | | 第二學期 2nd semester | | 第一學期 1st semester | | 第二學期 2nd semester | | 第一學期 1st semester | | 第二學期 2nd semester | |
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| 本系 必修 課程 (67學分) Required Courses (67 credits) | | 微積分 CALCULUS | 3 | 機械畫 MECHANICAL DRAWING | 2 | 工程數學 ENGINEERING MATHEMATICS | 3 | 工程數學 ENGINEERING MATHEMATICS | 3 | 空氣動力學 AERODYNAMICS | 3 | 空氣動力學 AERODYNAMICS | 2 | 航空發動機 AIRCRAFT ENGINES | 3 | | |
| | | 普通物理 GENERAL PHYSICS | 2 | 普通物理 GENERAL PHYSICS | 2 | 流體力學 FLUID MECHANICS | 3 | 電子學 ELECTRONICS | 2 | 飛具結構學 AIRCRAFT STRUCTURES | 3 | 飛具結構學 AIRCRAFT STRUCTURES | 2 | 飛機設計 AIRCRAFT DESIGN | 3 | | |
| | | 航空工程概論 INTRODUCTION TO AERONAUTICAL ENGINEERING | 1 | 基礎工程數學 BASIC ENGINEERING MATHEMATICS | 3 | 動力學 DYNAMICS | 3 | 材料力學 STRENGTH OF MATERIALS | 3 | 自動控制 AUTOMATIC CONTROL | 3 | 飛行力學 FLIGHT MECHANICS | 3 | 航太專題實驗 PRACTICE OF AEROSPACE ENGINEERING | 1 | | |
| | | 太空工程概論 INTRODUCTION TO ASTRONAUTICAL ENGINEERING | 1 | 熱力學(一) THERMODYNAMIC S (I) | 3 | 電工學 ELECTRICAL ENGINEERING | 2 | 流體力學實驗 FLUID MECHANICS LAB. | 1 | | | 電子計算機工程應 用 ENGINEERING APPLICATION OF COMPUTERS | 2 | | | | |
| | | | | 靜力學 STATICS | 3 | 工場實習 WORKSHOP PRACTICE | 1 | | | | | 航太工程實驗 AEROSPACE ENGINEERING LABORATORY | 1 | | | | |
| 本系 專業 課程 Specialized courses | 本系 選修 課程 (最低應修 9學分) Department Elective Courses(A minimum of 9 credits must be completed) | 工程材料學 ENGINEERING MATERIALS | 2 | Fortran程式語言設 計 COMPUTER PROGRAMMING IN FORTRAN | 3 | 熱力學(二) THERMODYNAMICS (II) | 2 | 訊號及系統 SIGNALS AND SYSTEMS | 2 | 振動學 ENGINEERING VIBRATIONS | 3 | 電工學實驗 ELECTRONIC AND CIRCUIT LABORATORY | 1 | 飛行原理專論 SPECIAL TOPICS IN PRINCIPLES OF FLIGHT | 2 | 民航學程實習 AVIATION PROGRAM INTERNSHIP | 9 |
| | | 飛機系統 AIRPLANE SYSTEMS | 2 | | | C語言程式設計 PROGRAMMING IN C LANGUAG | 3 | 無人機與國際關係 UNMANNED AERIAL VEHICLE AND INTERNATIONAL RELATIONS | 2 | 飛機性能分析 AIRCRAFT PERFORMANCE ANALYSIS | 2 | 無人機與火箭教學 實作 UNMANNED AERIAL VEHICLE AND ROCKET PRACTICE COURSE | 2 | 旋翼機專論 SPECIAL TOPICS IN ROTARY WING AIRCRAFT | 2 | 電腦輔助設計與製 造 CAD / CAM | 2 |
| | | | | | | 基礎航行學 GENERAL NAVIGATION | 2 | | | 航空材料學 AIRCRAFT MATERIALS | 2 | 航機英文 ENGLISH FOR AIRCRAFT SYSTEMS | 2 | 有限元素法 FINITE ELEMENT METHODS | 2 | 飛行安全專論 SPECIAL-TOPICS IN FLIGHT SAFETY | 2 |
| | | | | | | 航空儀表學 AIRCRAFT INSTRUMENTS | 2 | | | 高等材料力學 ADVANCED STRENGTH OF MATERIALS | 2 | 航空氣象專論 AVIATION WEATHER | 2 | 機械製造 MANUFACTURING PROCESSES | 2 | 無人機應用 AIRCRAFTAPPLICATI ON OF DRONE | 2 |
| | | | | | | | | | | 隨機程序概論 INTRODUCTION TO RANDOM PROCESS | 2 | 基礎飛機修護實作 BASICS OF AIRCRAFT MAINTENANCE PRACTICES | 2 | 航空品保 AVIATION QUALITY ASSURANCE | 2 | 系統工程 System Engineering | 2 |
| | | | | | | | | | | 線性代數 LINEAR ALGEBRA | 2 | Ai雲端機房熱管理 AI CLOUD DATA CENTER THERMAL MANAGEMENT | 2 | 航太醫學 FUNDAMENTALS OF AVIATION MEDICINE | 2 | 空中交通管制 AIR TRAFFIC CONTROL | 2 |
| | | | | | | | | | | 熱流實驗量測法 EXPERIMENTAL METHODS IN THERMO-FLUIDS | 2 | 氣體動力學 GAS DYNAMICS | 2 | 進階程式語言 ADVANCED PROGRAMMING IN C LANGUAG | 2 | 低空軌道衛星的國 防應用 THE DEFENSE APPLICATIONS OF LOW- EARTH ORBIT SATELLITES | 2 |
| | | | | | | | | | | | | 基礎熱傳學 FUNDAMENTALS OF HEAT TRANSFER | 2 | 控制器實務 IMPLEMENTATION OF CONTROLLERS | 2 | 前瞻產業實務 TECHNOLOGY FORESIGHT FOR INDUSTRIAL APPLICATION | 2 |
| | | | | | | | | | | | | 近代控制系統設計 MODERN CONTROL SYSTEM | 2 | 綠色能源科技概論 INTRODUCTION TO GREEN ENERGY TECHNOLOGY | 2 | 火箭工程 ROCKET PROPULSION | 3 |
| | | | | | | | | | | | | 太空飛行力學 DESIGN/SPACE FLIGHT MECHANICS | 2 | 校外實習 PROFESSIONAL INTERNSHIP | 1 | 航空英文 AVIATION ENGLISH | 2 |
| | | 實務講座課程 Seminars | | | | | | | | | | | | 飛航實務概論 INTRODUCTION OF PPL GROUND COURSE | 2 | 航太專案管理 AEROSPACE PROJECT MANAGEMENT | 2 |
| | | 院共同課程 Common Subjects | 廿一世紀的航太產業 (2學分) AEROSPACE INDUSTRY OF THE 21ST CENTURY (2 credits) 偏微分方程 (2學分) PARTIAL DIFFERENTIAL EQUATIONS (2 credits) | | | | | | | | | | | | | | |

◎本系選修課程依當學期開課課程為主，列表僅供參考。

◎ The department elective courses are mainly based on the courses offered in the current semester. The above list is for reference only. ◎

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| (1)校訂必修學分數 | 26學分 |
| (2)本系必修學分數 | 67學分 |
| (3)本系選修學分數(最低應修) | 15學分 |
| (4)其他選修學分數(自由選修) | 20學分 |
| 畢業總學分數 | 128學分 |

(1) Total credits of compulsory subjects: 93 credits (including 26 credits of general education courses)
(2) Minimum total number of credits required for elective courses in this department: 15 credits.
(3) Total credits of other elective courses: 20 credits
Total credits for graduation: 128 credits