

114. 9. 3 系課程審議通過
114. 9. 17 系務會議審議通過
114. 11. 20 院課程委員會審議通過
114. 12. 04 校課程委員會議及114. 12. 23 臨時教務會議審議通過

| 科目 | Courses | 上學期First Semester | | | 下學期Second Semester | | | |
|--|--|-------------------|---------------|------------------|--------------------|---------------|------------------|--|
| | | 學分 Credit | 正課 Lecture | 實習 Internship | 學分 Credit | 正課 Lecture | 實習 Internship | |
| 共同必修科目(28學分)General Required Courses(28credits hours) | | | | | | | | |
| 第一學年First Year | | | | | | | | |
| 國文(一) | Chinese (I) | 3 | 3 | 0 | | | | |
| 大一英文(一) | Freshman English (I) | 2 | 2 | 0 | | | | |
| 英文聽講(一) | English Listening and Speaking (I) | 1 | 1 | 0 | | | | |
| 體育(一) | Physical Education (I) | 0 | 2 | 0 | | | | |
| 國文(二) | Chinese (II) | | | | 3 | 3 | 0 | |
| 大一英文(二) | Freshman English (II) | | | | 2 | 2 | 0 | |
| 英文聽講(二) | English Listening and Speaking (II) | | | | 1 | 1 | 0 | |
| 體育(二) | Physical Education (II) | | | | 0 | 2 | 0 | |
| 第二學年Second Year | | | | | | | | |
| 歷史與文化(一) | History and Culture (I) | 2 | 2 | 0 | | | | |
| 音樂鑑賞(一) | Music Appreciation (I) | 1 | 1 | 0 | | | | |
| 體育(三) | Physical Education (III) | 0 | 2 | 0 | | | | |
| 歷史與文化(二) | History and Culture (II) | | | | 2 | 2 | 0 | |
| 音樂鑑賞(二) | Music Appreciation (II) | | | | 1 | 1 | 0 | |
| 藝術鑑賞(一) | Art Appreciation (I) | | | | 1 | 1 | 0 | |
| 體育(四) | Physical Education (IV) | | | | 0 | 2 | 0 | |
| 第三學年Third Year | | | | | | | | |
| 博雅通識課程 | Liberal Education Curriculums | 2 | 2 | 0 | | | | |
| 憲法與民主(一) | Constitution and Democracy (I) | 2 | 2 | 0 | | | | |
| 藝術鑑賞(二) | Art Appreciation (II) | 1 | 1 | 0 | | | | |
| 博雅通識課程 | Liberal Education Curriculums | | | | 2 | 2 | 0 | |
| 憲法與民主(二) | Constitution and Democracy (II) | | | | 2 | 2 | 0 | |
| 科目 | Courses | 上學期First Semester | | | 下學期Second Semester | | | |
| | | 學分 Credit | 正課 Lecture | 實習 Internship | 學分 Credit | 正課 Lecture | 實習 Internship | |
| 專業必修科目(75學分)Department Required Courses(75credits hours) | | | | | | | | |
| 第一學年First Year | | | | | | | | |
| 微積分(一) | Calculus (I) | 3 | 3 | 0 | | | | |
| 程式語言(一) | Computer Programming (I) | 3 | 3 | 0 | | | | |
| 電腦輔助機械製圖 | Computer Aided Mechanical Drawing | 3 | 0 | 3 | | | | |
| 智慧自動化工程概論 | Introduction to Intelligent Automation Engineering | 2 | 2 | 0 | | | | |
| 微積分(二) | Calculus (II) | | | | 3 | 3 | 0 | |
| 程式語言(二) | Computer Programming (II) | | | | 3 | 3 | 0 | |
| 靜力學 | Statics | | | | 3 | 3 | 0 | |
| 工業4.0概論 | Introduction to Industry 4.0 | | | | 2 | 2 | 0 | |
| 第二學年Second Year | | | | | | | | |
| 工程數學 | Engineering Mathematics | 3 | 3 | 0 | | | | |
| 精密量測原理與實習 | Precision Measurement and Practice | 3 | 0 | 3 | | | | |
| 動力學 | Dynamics | 3 | 3 | 0 | | | | |
| 材料力學 | Mechanics of Materials | 3 | 3 | 0 | | | | |
| ●「AI」人工智慧概論 | Introduction to Artificial Intelligence | 2 | 2 | 0 | | | | |
| ●工業電子學與實習 | Industrial Electronics and Practice | | | | 3 | 0 | 3 | |
| 熱流工程概論 | Introduction to Thermal-Fluid Engineering | | | | 3 | 3 | 0 | |
| ●「AI」△機器學習 | Machine Learning | | | | 3 | 3 | 0 | |
| ●電腦輔助工程分析 | Computer Aided Engineering Analysis | | | | 3 | 0 | 3 | |
| 第三學年Third Year | | | | | | | | |
| ●△順序控制與實習 | Sequence Control and Practice | 3 | 0 | 3 | | | | |
| 流體力學 | Fluid Mechanics | 3 | 3 | 0 | | | | |
| ●電腦輔助熱流分析 | Computer Aided Thermal-Fluid Analysis | 3 | 1 | 2 | | | | |
| ●半導體材料及先進材料概論 | Introduction of Semiconductor Materials and Advanced Materials | 3 | 3 | 0 | | | | |
| ●「AI」△物聯網應用與實習 | Internet of Things and Practice | | | | 3 | 0 | 3 | |
| ●機光電整合系統設計與實習 | Mechatronics System Design and Practice | | | | 3 | 0 | 3 | |
| ●感測器原理應用與實習 | Practice and Applications of Sensors | | | | 3 | 0 | 3 | |
| ●半導體設備設計應用概論 | Introduction to Semiconductor Equipment Design and Application | | | | 3 | 3 | 0 | |
| ●系統工程概論 | Introduction to System Engineering | | | | 3 | 2 | 1 | |
| 科目 | Courses | 上學期First Semester | | | 下學期Second Semester | | | |
| | | 學分 Credit | 正課 Lecture | 實習 Internship | 學分 Credit | 正課 Lecture | 實習 Internship | |

- 一、 畢業至少應修滿 128 學分【必修 103 學分，選修至少 25 學分(其中至少需含本系專業選修 12 學分)】。
Students should complete at least 128 credits before graduation, including 103 required credits, 25 elective credits (elective credits should have at least 12 credits from department elective courses).
- 二、 博雅通識課程三大領域中，應修習二門不同領域課程，學分總計至少4學分。
Among the 3 core areas of liberal education curriculum, students should take 4 or more credits in 2 different areas.
- 三、 課程名稱前有標示「△」符號者，為程式設計課程。
Courses with a "△" refers to an application design course.
- 四、 課程名稱前有標示「●」符號者，為「職能專業課程」。
Courses with a "●" refer to a professional competence course.
- 五、 課程名稱前有標示「AI」符號者，為「人工智慧相關課程」。
Courses with an "AI" refer to an artificial intelligence related course
- 六、 為因應法規變更、評鑑建議或政府計畫規定等外在因素，本系保有調整學分計畫之權利。若有修訂，將於學期開始前公告，並明確說明修訂內容、影響範圍及相關配套措施，以保障學生權益。
The department reserves the right to adjust the curriculum in response to external factors such as changes in regulations, suggestions of evaluation and accreditation, or government program regulations. If there are any revisions, will be announced before the start of the semester, and the revised content, scope of impact, and related supporting measures will be clearly stated to protect the rights and interests of students.