

| obligatory / elective course | No.     | course name(ch) | course name   | grade | semester | credit | hours/week  |          | Remark |
|------------------------------|---------|-----------------|---|-------|----------|--------|-------------|----------|--------|
|                              |         |                 |   |       |          |        | instruction | parctice |        |
| common course-obligatory     | MT00085 | 全民國防教育軍事訓練-國際情勢 | All-out Defence Education Military Training - International Situations  | 1     | 1        | 0      | 2           | 0        |        |
|                              | MT00086 | 全民國防教育軍事訓練-國防政策 | All-out Defence Education Military Training - National Defense Policies | 1     | 2        | 0      | 2           | 0        |        |
|                              | PE00217 | 體育 I            | Physical Education I  | 1     | 1        | 0      | 2           | 0        |        |
|                              | PE00218 | 體育 II           | Physical Education II   | 1     | 2        | 0      | 2           | 0        |        |
|                              | PE00219 | 體育 III          | Physical Education III  | 2     | 1        | 0      | 2           | 0        |        |
|                              | PE00220 | 體育 IV           | Physical Education IV   | 2     | 2        | 0      | 2           | 0        |        |
| language course-obligatory   | GE00561 | 國文              | Chinese   | 1     | 2        | 2      | 2           | 0        |        |
|                              | LE00297 | 英文 I            | Freshman English I  | 1     | 1        | 2      | 2           | 0        |        |
|                              | LE00298 | 英文 II           | Freshman English II   | 1     | 2        | 2      | 2           | 0        |        |
|                              | LE00299 | 外語初級 I          |   | 2     | 1        | 2      | 2           | 0        |        |
|                              | LE00300 | 外語初級 II         |   | 2     | 2        | 2      | 2           | 0        |        |
| language course-elective     | LE00301 | 外語中級 I          |   | 3     | 1        | 2      | 2           | 0        |        |
|                              | LE00302 | 外語中級 II         |   | 3     | 2        | 2      | 2           | 0        |        |
| general course-obligatory    | EA00206 | 科技工程倫理          | Scientific and Engineering Ethics                                       | 1     | 1        | 3      | 3           | 0        |        |
|                              | GE00206 | 音樂欣賞            | Music Appreciation  | 1     | 1        | 2      | 2           | 0        |        |
|                              | GE00537 | 服務學習            | Service-Learning  | 2     | 1        | 1      | 1           | 2        |        |
|                              | GE00562 | 長榮精神            | University and Holistic Pastoral Education                              | 1     | 2        | 2      | 2           | 0        |        |
|                              | GE00563 | 人文學概論           | An Introduction to Humanities   | 2     | 2        | 2      | 2           | 0        |        |
|                              | GE00564 | 勞務教育            | Labor Education   | 1     | 1        | 1      | 1           | 0        |        |
|                              | GE00565 | 勞務訓練            | Labor Training  | 1     | 2        | 0      | 0           | 2        |        |
|                              | GE00566 | 勞務實習            | Labor Practicum   | 1     | 1        | 0      | 0           | 2        |        |
|                              | GE00567 | 通識課程            |   | 0     | 1        | 8      | 2           | 0        |        |
| dep. course-obligatory       | EA00287 | 會計學             | Accounting  | 1     | 1        | 2      | 2           | 0        |        |
|                              | EA00179 | 經濟學             | Economics   | 1     | 1        | 2      | 2           | 0        |        |
|                              | EA00177 | 物理學             | Physics   | 1     | 1        | 3      | 3           | 0        |        |
|                              | EA00055 | 計算機概論           | Introduction to Computer Science  | 1     | 1        | 3      | 3           | 0        |        |
|                              | EA00218 | 微積分 I           | Calculus I  | 1     | 1        | 3      | 3           | 0        |        |
|                              | EA00219 | 微積分 II          | Calculus II   | 1     | 2        | 3      | 3           | 0        |        |
|                              | EA00149 | 邏輯設計            | Logic Circuits Design   | 1     | 2        | 3      | 3           | 0        |        |
|                              | EA00257 | 邏輯設計實習          | Logic Circuits Design Lab.  | 1     | 2        | 1      | 0           | 2        |        |
|                              | EA00093 | 程式設計            | Computer Language Programming   | 1     | 2        | 3      | 3           | 0        |        |

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| dep. course-obligatory       | EA00288 | 程式設計實習          | Computer Language Programming Lab.                          | 1     | 2        | 1      | 0           | 2        |        |
|                              | EA00180 | 企業概論            | Introduction to Business Administration                     | 1     | 2        | 2      | 2           | 0        |        |
|                              | EA00124 | 管理學             | Management  | 2     | 1        | 3      | 3           | 0        |        |
|                              | EA00220 | 工程數學 I          | Engineering Mathematics I                                   | 2     | 1        | 3      | 3           | 0        |        |
|                              | EA00222 | 電子學 I           | Electronics I   | 2     | 1        | 3      | 3           | 0        |        |
|                              | EA00224 | 電子學實驗 I         | Electronics Lab. I  | 2     | 1        | 1      | 0           | 2        |        |
|                              | EA00223 | 電子學 II          | Electronics II  | 2     | 2        | 3      | 3           | 0        |        |
|                              | EA00225 | 電子學實驗 II        | Electronics Lab. II   | 2     | 2        | 1      | 0           | 2        |        |
|                              | EA00120 | 電磁學             | Electromagnetics  | 2     | 2        | 3      | 3           | 0        |        |
|                              | EA00298 | 專題計畫導論          | Introduction to Project Planning                            | 3     | 1        | 1      | 1           | 0        |        |
|                              | EA00228 | 畢業專題實作 I        | Graduation Project I  | 3     | 2        | 2      | 2           | 0        |        |
|                              | EA00229 | 畢業專題實作 II       | Graduation Project II                                       | 4     | 1        | 2      | 2           | 0        |        |
| dep. course-elective         | EA00321 | 資訊暨設計學院微學分 I    | Micro Credit Points in College of Information and Design I  | 0     | 1        | 1      | 1           | 0        |        |
|                              | EA00322 | 資訊暨設計學院微學分 II   | Micro Credit Points in College of Information and Design II | 0     | 1        | 1      | 1           | 0        |        |
|                              | EA00047 | 科技英文            | Technology English  | 1     | 1        | 2      | 2           | 0        |        |
|                              | EA00010 | 工程概論            | Introduction to Engineering                                 | 1     | 2        | 2      | 2           | 0        |        |
|                              | EA00246 | 工業組織與管理         | Industrial Organization and Management                      | 1     | 2        | 3      | 3           | 0        |        |
|                              | EA00119 | 電路學             | Electrical Circuits Theory                                  | 1     | 2        | 3      | 3           | 0        |        |
| common course-elective       | MT00040 | 軍訓 III          | Military Education III                                      | 2     | 1        | 1      | 2           | 0        |        |
| dep. course-elective         | EA00264 | 靜電保護電路設計導論      | Introduction to ESD Protection Circuit Design               | 2     | 1        | 3      | 3           | 0        |        |
|                              | EA00185 | 數位系統設計          | Digital System Design                                       | 2     | 1        | 3      | 3           | 0        |        |
|                              | EA00186 | 數位系統設計實習        | Digital System Design Lab.                                  | 2     | 1        | 1      | 0           | 2        |        |
|                              | EA00282 | 半導體製程 I         | Semiconductor Manufacturing Technology I                    | 2     | 1        | 3      | 3           | 0        |        |
|                              | EA00054 | 計算機組織           | Computer Organization                                       | 2     | 1        | 3      | 3           | 0        |        |
|                              | EA00117 | 電腦網路            | Computer Networks   | 2     | 1        | 3      | 3           | 0        |        |
|                              | EA00108 | 資料結構            | Data Structures   | 2     | 1        | 3      | 3           | 0        |        |
|                              | EA00249 | 視窗程式設計          | Windows programming   | 2     | 1        | 3      | 3           | 0        |        |
|                              | EA00266 | 視窗程式設計實習        | Windows Programming Lab.                                    | 2     | 1        | 1      | 0           | 2        |        |
| common course-elective       | MT00042 | 軍訓 IV           | Military Education IV                                       | 2     | 2        | 1      | 2           | 0        |        |

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| dep. course-elective         | EA00221 | 工程數學 II         | Engineering Mathematics II                                | 2     | 2        | 3      | 3           | 0        |        |
|                              | EA00087 | 組織行為            | Organization Behavior                                     | 2     | 2        | 2      | 2           | 0        |        |
|                              | EA00007 | 人力資源管理          | Human Resource Management                                 | 2     | 2        | 3      | 3           | 0        |        |
|                              | EA00268 | 奈米電子元件導論        | Introduction to Nano Electronic Devices                   | 2     | 2        | 3      | 3           | 0        |        |
|                              | EA00270 | 圖控介面與程式設計       | Graphic Control Interface and Programming                 | 2     | 2        | 3      | 3           | 0        |        |
|                              | EA00096 | 超大型積體電路設計導論     | Introduction to VLSI Design                               | 2     | 2        | 3      | 3           | 0        |        |
|                              | EA00267 | 超大型積體電路設計實習     | VLSI Design Lab.  | 2     | 2        | 1      | 0           | 2        |        |
|                              | EA00283 | 半導體製程 II        | Semiconductor Manufacturing Technology II                 | 2     | 2        | 3      | 3           | 0        |        |
|                              | EA00173 | 半導體元件           | Physics and Technology of Semiconductor Devices           | 2     | 2        | 3      | 3           | 0        |        |
|                              | EA00133 | 線性代數            | Linear Algebra  | 2     | 2        | 3      | 3           | 0        |        |
|                              | EA00250 | 單晶片應用設計         | Single-chip application design                            | 2     | 2        | 3      | 3           | 0        |        |
|                              | EA00269 | 單晶片應用設計實習       | Microcontroller Application Lab.                          | 2     | 2        | 1      | 0           | 2        |        |
|                              | EA00191 | 作業系統            | Operation System  | 2     | 2        | 3      | 3           | 0        |        |
|                              | EA00139 | 機率與統計           | Probabilities and Statistics                              | 2     | 2        | 3      | 3           | 0        |        |
| common course-elective       | PE00343 | 體育 V            | Physical Education V                                      | 3     | 1        | 1      | 2           | 0        |        |
| dep. course-elective         | EA00032 | 全面品質管理 I        | Total Quality Management I                                | 3     | 1        | 3      | 3           | 0        |        |
|                              | EA00216 | 創意設計            | Creative Design   | 3     | 1        | 3      | 3           | 0        |        |
|                              | EA00271 | 顯示器驅動原理與實務導論    | Introduction to Principle and Practice of Display Drivers | 3     | 1        | 3      | 3           | 0        |        |
|                              | EA00244 | 數值方法與電腦應用       | Numerical Methods and Computer Applications               | 3     | 1        | 3      | 3           | 0        |        |
|                              | EA00272 | 放大器應用與實務導論      | Introduction to Application and Practice of Amplifiers    | 3     | 1        | 3      | 3           | 0        |        |
|                              | EA00285 | 通訊電子學           | Communication Electronics                                 | 3     | 1        | 3      | 3           | 0        |        |
|                              | EA00130 | 數位積體電路          | Digital Integrated Circuits                               | 3     | 1        | 3      | 3           | 0        |        |
|                              | EA00187 | 控制系統            | Control System  | 3     | 1        | 3      | 3           | 0        |        |
|                              | EA00205 | 感測器理論與應用        | Theory and Applications of Biosensor                      | 3     | 1        | 3      | 3           | 0        |        |
|                              | EA00192 | 嵌入式系統設計         | Embedded System Design                                    | 3     | 1        | 3      | 3           | 0        |        |
|                              | EA00273 | 嵌入式系統設計實習       | Embedded System Design Lab.                               | 3     | 1        | 1      | 0           | 2        |        |
|                              | EA00242 | 工程應用程式設計        | Applied Engineering Programming                           | 3     | 1        | 3      | 3           | 0        |        |
|                              | EA00067 | 訊號與系統           | Signals and Systems                                       | 3     | 1        | 3      | 3           | 0        |        |

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| common course-elective       | PE00344 | 體育VI            | Physical Education VI                       | 3     | 2        | 1      | 2           | 0        |        |
| dep. course-elective         | EA00241 | 商用英文            | Business English                            | 3     | 2        | 2      | 2           | 0        |        |
|                              | EA00035 | 行銷學             | Marketing                                   | 3     | 2        | 3      | 3           | 0        |        |
|                              | EA00033 | 全面品質管理II        | Total Quality Management II                 | 3     | 2        | 3      | 3           | 0        |        |
|                              | EA00144 | 離散數學            | Discrete Mathematics                        | 3     | 2        | 3      | 3           | 0        |        |
|                              | EA00286 | 專利概論            | Introduction to Patents                     | 3     | 2        | 3      | 3           | 0        |        |
|                              | EA00252 | 可程式系統晶片應用設計     | Programmable system chip application design | 3     | 2        | 3      | 3           | 0        |        |
|                              | EA00277 | 半導體測試圖案設計       | Semiconductor Test Pattern Design           | 3     | 2        | 3      | 3           | 0        |        |
|                              | EA00290 | 嵌入式軟體設計         | Embedded Software Design                    | 3     | 2        | 3      | 3           | 0        |        |
|                              | EA00072 | 高頻電路設計          | High Frequency Circuits Design              | 3     | 2        | 3      | 3           | 0        |        |
|                              | EA00148 | 類比積體電路          | Analog Integrated Circuit                   | 3     | 2        | 3      | 3           | 0        |        |
|                              | EA00253 | 機電整合導論          | Introduction to Mechatronics                | 3     | 2        | 3      | 3           | 0        |        |
|                              | EA00280 | 行動裝置程式設計        | Programming for Mobile Devices              | 3     | 2        | 3      | 3           | 0        |        |
|                              | EA00289 | 行動裝置程式設計實習      | Programming for Mobile Devices Lab.         | 3     | 2        | 1      | 0           | 2        |        |
|                              | EA00193 | 通訊系統            | Communication System                        | 3     | 2        | 3      | 3           | 0        |        |
| common course-elective       | LE00290 | 進階語言 I          | Advanced Foreign Languages (Part I)         | 4     | 1        | 2      | 2           | 0        |        |
|                              | PE00225 | 體育VII           | Physical Education VII                      | 4     | 1        | 1      | 2           | 0        |        |
| dep. course-elective         | EA00248 | 科技管理            | Technology Management                       | 4     | 1        | 3      | 3           | 0        |        |
|                              | EA00036 | 作業研究            | Operations Research                         | 4     | 1        | 3      | 3           | 0        |        |
|                              | EA00095 | 策略管理            | Strategic Management                        | 4     | 1        | 3      | 3           | 0        |        |
|                              | EA00215 | 積體電路應用設計        | Application Design of Integrated-Circuits   | 4     | 1        | 3      | 3           | 0        |        |
|                              | EA00127 | 數位訊號處理導論        | Introduction to Digital Signal Processing   | 4     | 1        | 3      | 3           | 0        |        |
|                              | EA00281 | 機器人設計導論         | Introduction to Robot Design                | 4     | 1        | 3      | 3           | 0        |        |
|                              | EA00129 | 數位影像處理導論        | Introduction to Digital Image Processing    | 4     | 1        | 3      | 3           | 0        |        |
|                              | EA00292 | 企業實習 I          | Enterprise Internship I                     | 4     | 1        | 3      | 0           | 9        |        |
|                              | EA00293 | 企業實習 II         | Enterprise Internship II                    | 4     | 1        | 3      | 0           | 9        |        |
|                              | EA00294 | 企業實習 III        | Enterprise Internship III                   | 4     | 1        | 3      | 0           | 9        |        |
| common course-elective       | LE00291 | 進階語言 II         | Advanced Foreign Languages (Part II)        | 4     | 2        | 2      | 2           | 0        |        |
|                              | PE00227 | 體育VIII          | Physical Education VIII                     | 4     | 2        | 1      | 2           | 0        |        |

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| dep. course-elective                                  | EA00245 | 光電導論            | Introduction to Optical Electronics | 4     | 2        | 3      | 3           | 0        |        |
|   | EA00197 | 生物感測系統          | Biosensor Systems                   | 4     | 2        | 3      | 3           | 0        |        |
|   | EA00040 | 系統晶片導論          | Introduction to System-On-Chip      | 4     | 2        | 3      | 3           | 0        |        |
|   | EA00037 | 技術管理            | Technical Management                | 4     | 2        | 3      | 3           | 0        |        |
|   | EA00209 | 專案管理            | Project Management                  | 4     | 2        | 3      | 3           | 0        |        |
|   | EA00295 | 企業實習IV          | Enterprise InternshipIV             | 4     | 2        | 3      | 0           | 9        |        |
|   | EA00296 | 企業實習V           | Enterprise Internship V             | 4     | 2        | 3      | 0           | 9        |        |
|   | EA00297 | 企業實習VI          | Enterprise InternshipVI             | 4     | 2        | 3      | 0           | 9        |        |
|   | EA00291 | 應用電磁學           | Applied Electromagnetics            | 4     | 2        | 3      | 3           | 0        |        |
| obligatory 77<br>elective course 53<br>credit sum 130 |         |                 |                                     |       |          |        |             |          |        |