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| 教育課程 Teacher Education Courses | 教育概論 Introduction to Education | 2 | | 輔導原理與實務 Principle and Practice of Guidance | 2 | | 生活科技教材教法 (雙語教學)Teaching Materials and Methods of Technology Education(Bilingual Teaching) | 2 | 生活科技科教學實習 (雙語教學) Practicum for Technology Education(Bilingual Teaching) | 2 | |
| | 教育心理學 Educational Psychology | | 2 | 學習評量 Assessment in Learning | | 2 | 班級經營 Class Management | 2 | 特殊教育導論 Introduction to Special Education | 3 | |
| | | | | 教學原理 Principles of Teaching | | 2 | 教育議題專題 Topics in Education Issues | 2 | 生活科技科進階教學實習 Advanced Practicum for Technology Education | | 2 |
| | | | | 課程發展與設計 Curriculum Development & Design | | 2 | 生活科技科進階教材教法 (雙語教學) Teaching Materials and Methods of Technology Education(Bilingual Teaching) | 2 | | | |
| 必修專業科目 Required Core Courses | 圖學 Graphic Science | 3(4) | | 電子學 Introduction to Electronics | 3 | | 自動控制 Automatic Control | 3 | 專題製作 (冷凍空調) Special Project (HVAC & R) | 3 | 二選一 |
| | 電工技術 Electricity Technology | 2(4) | | 工程數學 (一) Engineering Mathematics (I) | 3 | | 機電整合 Mechatronics Integration | 3(4) | 專題製作 (智慧生活專題) Special Project (Intelligent Life) | | |
| | 科技與工程教育概論 Introduction to Technology and Engineering Education | 2 | | 電子電路 Electronics Circuits | | 3 | 專題製作(科技與工程教育) Special Project (Science and Technology Education) | 3 二選一 | | | |
| | 微積分 (一)Calculus (I) | 3 | | | | | 專題製作 (永續能源) (Special Project (Sustainable Energy) | | | | |

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| | 計算機概論 Computer Concept | 3 | | 能源與動力(二) Energy and Power(II) | 3 (4) | | 電腦輔助製造 Computer-Aided Manufacturing | 3 | 跨學科課程發展與設計 Interdisciplinary Curriculum Design | 2 | |
| | 微積分 (二) Calculus (II) | | 3 | 基本設計 Basic Design | 3 (4) | | 工程設計 Engineering Design | 3 | | | |
| | 程式設計 Programming Language | | 3 | 木器製造 Wooden Furniture Manufacturing | 3 (4) | | 結構學 Theory of Structures | 3 | | | |
| | 能源與動力 (一) Energy and Power(I) | | 3 (4) | 機械製造 Process of Manufacture | | 3 (4) | 科技教室規畫與管理 Technology Laboratory Layout and Management | 2 | | | |
| | 電工學 Electrotechnology | | 3 | 機構學 Mechanism | | 3 | | | | | |
| 選修 Elective Courses | 科目 Subject | 學分 Credit | | 科目 Subject | 學分 Credit | | 科目 Subject | 學分 Credit | 科目 Subject | 學分 Credit | |
| | 科技系統與社會發展 Technology System Development | 2 | | 電機機械 Electrical Machines | 3 | | 生產管理 Production and Operations Management | 3 | 科技教育教學策略 Teaching Method of Technology Education | 3 | |
| | 科技發展史 History of Technological Development | 2 | | 電腦多媒體輔助教學 Multimedia And Computer-Assisted Instruction | 3 | | 職能分析 Competency Analysis | 3 | 訓練課程規劃 Plan of Training Program | 3 | |
| | 電腦繪圖 Computer Graphics | 3 | | 人因工程 Human Factors Engineering | 3 | | 工程力學 Engineering Mechanics | 3 | 圖文傳播 Graphic Communication | 3 | |
| | | | | 營建製造 Construction Manufacturing | 3 (4) | | 訓練需求分析 Need Analysis of Training | 3 | 訓練課程績效評估 Evaluation of Training Program | 3 | |
| | | | | 電子電路實驗 Electronics Circuits Experiment | 3 (4) | | 生活科技教具發展 Development of Technology Teaching Media | 3 | 產品設計與製造 Product Design and Manufacture | 3 | |
| | | | | | | | 數位邏輯 Digital logic | 3 | 陶瓷加工 Ceramics | 3 (4) | |

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| 冷凍空調原理 Principles of Refrigerated Air Conditioning | 3 | 建築物理 Physical Building Environment | 3 | 業界實習 Industrial Internship | 2 | 製造科技 Manufacturing Technology | 3 |
| 綠建築與照明 Green Building and lighting | 3 | 熱力學 Thermodynamics | 3 | 冷凍空調自動控制 Automatic Control for HVAC&R System | 3 | 人工智慧 Artificial Intelligence | 3 |
| 建築節能設計 Energy-efficient Building Design | 3 | 流體力學 Fluid Dynamics | 3 | 冷凍工程與設計 Design of Refrigeration Engineering | 3 | 電子散熱技術 Heat Transfer Technology for Electronic | 3 |
| 節能技術概論 Introduction to Energy-saving Technologies | 3 | 熱傳學 Heat Transfer | 3 | 空調工程與設計 Design of HVAC System | 3 | 冷凍空調節能技術 Energy Conservation Technology for HVAC & R System | 3 |
| | | 綠色營建產業 | 3 | 再生能源工程 Renewable Energy Engineering | 3 | 通風工程 Ventilation Engineering | 3 |
| | | 基礎冷凍空調實務 Primary Practice of Refrigeration and Air-Condition | 3 | 機房空調實務 Practice of HVAC System In Communication Center | 3 | | |
| | | 震動與噪音控制 Control of Vibration and Noise | 3 | 熱交換工程 Heat Exchanger | 3 | | |
| | | | | 冷凍空調設備製造 Manufacture of HVAC & R Equipment | 3 | | |
| 計算機結構 Computer Architecture | 3 | 資料結構 Data Structure | 3 | 離散數學 Discrete Mathematics | 3 | | |
| | | 線性代數 Linear Algebra | 3 | 演算法 Algorithm | 3 | | |
| | | 作業系統 Operating System | 3 | 資料庫系統 Database System | 3 | | |
| | | 計算機網路 Computer Network | 3 | 資料探勘 Data Mining | 3 | | |

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