

| 大葉大學 112學年度大學日間部新生入學四年學程<br>112 Academic Year Bachelor's Degree Program, Da-Yeh University<br>院別：護理暨健康學院 系別：醫學工程學系 畢業總學分:128學分 製表日期:115.7.30<br>Department of Biomedical Engineering, College of Nursing and Health Sciences Total Credits: 128 Publish Date:July 30, 2026 |                                                             |     |                       |             |                                                  |          |                           |                |                       |               |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----|-----------------------|-------------|--------------------------------------------------|----------|---------------------------|----------------|-----------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 類別                                                                                                                                                                                                                                                                         | Category                                                    | 必選別 | Required/<br>Elective | 科目名稱        | Course Title                                     | 修課年級、學期別 | Academic<br>Year/Semester | 學分數<br>Credits | 每週上課時數<br>Class Hours |               | 備註                                                                                                                                            | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                            |                                                             |     |                       |             |                                                  |          |                           |                | 講授<br>Lecture         | 實習(驗)<br>Lab. |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 校訂必修28學分                                                                                                                                                                                                                                                                   | University-<br>Required<br>Courses: 28<br>Credits           | 必   | Required              | 國文能力        | Chinese Language Proficiency                     | 一        | 1/1、1/2                   | 2              | 2                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 運算思維        | Computational Thinking                           | 一        | 1/1、1/2                   | 2              | 2                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 英語聽力與口語(一)  | English Listening and Speaking (1)               | 一上       | 1/1                       | 2              | 2                     | 0             | 此四科「英文能力」類課程採：<br>一. 全英語教學<br>二. 能力分班<br>三. 同科目但不同能力班級，課程名稱不同。<br>例:初級英語聽力與口語(一)、中級英語聽力與口語(一)、中高級英語聽力與口語(一)、高級英語聽力與口語(一)。                     | The four courses in the"Fundamental English"category have the following features:<br>a.) English-taught instruction<br>b.) Student attending placement tests prior formal classes<br>c.) Students are divided into classes of different levels according to the results of the English proficiency placement test, including Elementary English Listening and Speaking (1)<br>Intermediate English Listening and Speaking(1)<br>Upper-Intermediate English Listening and Speaking(1)<br>Advanced English Listening and Speaking (1) |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 英文閱讀與寫作(一)  | English Reading and Writing (1)                  | 一上       | 1/1                       | 2              | 2                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 英語聽力與口語(二)  | English Listening and Speaking (2)               | 一下       | 1/2                       | 2              | 2                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 英文閱讀與寫作(二)  | English Reading and Writing (2)                  | 一下       | 1/2                       | 2              | 2                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 通識          | General Education                                |          |                           | 16             | 16                    | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 英語文能力檢定     | Qualification Test of English Proficiency        |          |                           | 0              | 0                     | 0             | 學生於大一下學期結束前均須參加英文檢定校園考或校外英文檢定測驗，成績須達多益400分以上(或CSEPT第一級170分，或全民英檢中級初試通過，或托福、雅思等其他同等級之測驗分數)。英語學系及文創產業國際人才學士學位學程之通過標準另依其規定。。依大葉大學學生英文能力檢定實施辦法辦理。 | Students are required to sit in for campus/off-campus English proficiency tests before the end of freshman year. The passing requirement for each proficiency test is described below:<br>TOEIC 400/ 1st-level CSEPT 170/<br>Intermediate GEPT/TOEFL or IELTS scores at equivalent levels.                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 資訊基本能力檢定    | Qualification Test of Computer Skills            |          |                           | 0              | 0                     | 0             | 依大葉大學學生資訊基本能力檢定實施辦法辦理。                                                                                                                        | One of the following Microsoft Office certifications is required for graduation.<br>1.Microsoft Office Specialist(MOS) in Word<br>2.Microsoft Office Specialist(MOS) in Powerpoint<br>3.Microsoft Office Specialist(MOS) in Excel<br>4.Techficiency Quotient Certification in Word<br>5.Techficiency Quotient Certification in Powerpoint<br>6.Techficiency Quotient Certification in Excel<br>7.Other Microsoft Office certifications authenticated by Computer Center.                                                            |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 職場實習暨體驗     | Internship                                       |          |                           | 0              | 0                     | 0             | 學生應於在學期間完成職場實習暨體驗認證時數達100小時以上，始得畢業。依大葉大學職場實習暨體驗實施辦法辦理。                                                                                        | Students should complete an internship during the study period, the hours of authentication for more than 100 hours before graduation. Conduct according to Internship regulation of Da-Yeh University.                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 中文能力檢定      | Chinese Language Proficiency Test                |          |                           | 0              | 0                     | 0             | 依大葉大學學生中文能力檢定辦法辦理。                                                                                                                            | Conduct according to Chinese Language Proficiency Test regulation of Da-Yeh University.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 體育          | Physical Education                               | 一上<br>一下 | 1/1<br>1/2                | 1<br>1         | 2<br>2                | 0<br>0        | 體育必修不列入畢業學分，大一學生每學期均須修習，每學期1學分。                                                                                                               | Required for freshman; 1 credit for each semester.Physical Education Required is not included in the graduation credit.                                                                                                                                                                                                                                                                                                                                                                                                             |
| 院訂必修2學分                                                                                                                                                                                                                                                                    | College-<br>Designated<br>Required<br>Courses: 2<br>Credits | 必   | Required              | 緊急醫療救護概論    | Introduction to Emergencies Care                 | 一下       | 1/2                       | 2              | 2                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 系訂必修53學分                                                                                                                                                                                                                                                                   | Departmental<br>Required<br>Courses:53<br>Credits           | 必   | Required              | 普通生物        | General Biology                                  | 一上       | 1/1                       | 3              | 3                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 普通化學        | General Chemistry                                | 一上       | 1/1                       | 3              | 3                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 普通化學實驗      | General Chemistry Laboratory                     | 一上       | 1/1                       | 1              | 1                     | 2             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 微積分         | Calculus                                         | 一上       | 1/1                       | 3              | 3                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 醫用生理學       | Medical Physiology                               | 一上       | 1/1                       | 3              | 3                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 醫學工程概論      | Introduction to Medical Engineering              | 一下       | 1/2                       | 3              | 3                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 普通物理        | General Physics                                  | 一下       | 1/2                       | 3              | 3                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 普通物理實驗      | General Physical Laboratory                      | 一下       | 1/2                       | 1              | 1                     | 2             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 計算機概論       | Introduction to Computer                         | 一下       | 1/2                       | 3              | 3                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 解剖學         | Anatomy                                          | 一下       | 1/2                       | 3              | 3                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 工程力學        | Engineering Mechanics                            | 二上       | 2/1                       | 3              | 3                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 醫學工程數學      | Medical Engineering Mathematics                  | 二上       | 2/1                       | 3              | 3                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 程式語言        | Programing in Python                             | 二上       | 2/1                       | 3              | 3                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 醫學工程實驗(一)   | Biomedical Engineering Laboratory (1)            | 二上       | 2/1                       | 1              | 1                     | 2             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                            |                                                             | 必   | Required              | 醫用材料工程導論(一) | Introduction to Medical Material Engineering (1) | 二上       | 2/1                       | 3              | 3                     | 0             |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

|          |                                           |                                                                                                                                                                                                                                            |                                                |               |                                                                   |    |         |   |   |   |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------|-------------------------------------------------------------------|----|---------|---|---|---|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                                           | 必                                                                                                                                                                                                                                          | Required                                       | 生物醫學材料        | Biomedical Materials                                              | 二下 | 2/2     | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 必                                                                                                                                                                                                                                          | Required                                       | 醫學工程實驗(二)     | Biomedical Engineering Laboratory (2)                             | 二下 | 2/2     | 1 | 1 | 2 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 必                                                                                                                                                                                                                                          | Required                                       | 醫療器材設計導論      | Introduction to Design of Medical Device                          | 三上 | 3/1     | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 必                                                                                                                                                                                                                                          | Required                                       | 英文科技論文導讀      | English Scientific and Technical Readings                         | 三上 | 3/1     | 2 | 2 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 必                                                                                                                                                                                                                                          | Required                                       | 專題研究(一)       | Special Topic I                                                   | 三上 | 3/1     | 1 | 1 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 必                                                                                                                                                                                                                                          | Required                                       | 醫學訊號與系統(含電路學) | Signals and System(Electronic Circuits)                           | 三下 | 3/2     | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 必                                                                                                                                                                                                                                          | Required                                       | 專題研究(二)       | Special Topic II                                                  | 三下 | 3/2     | 1 | 1 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 系訂選修36學分 | Departmental Elective Courses: 36 Credits | 選                                                                                                                                                                                                                                          | Elective                                       | 生物醫學概論        | Introduction to Biomedical Engineering                            | 一  | 1/1、1/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 智慧醫療照護概論      | Introduction to Smart Healthcare                                  | 一  | 1/1、1/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 生物化學          | Physics and Chemistry                                             | 二  | 2/1、2/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 發明與創意產品設計     | Innovative Produce Design                                         | 二  | 2/1、2/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 銀髮族創意產品設計     | Creative Product Design for the Elderly                           | 二  | 2/1、2/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 機率與統計         | Probability and Statistics                                        | 二  | 2/1、2/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 工程圖學          | Engineering Graphics                                              | 二  | 2/1、2/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 感測元件及原理       | Components and Theory of Sensors                                  | 二  | 2/1、2/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 骨骼肌肉系統        | Musculoskeletal System                                            | 二  | 2/1、2/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 運動生物力學        | Biomechanics of Sport and Exercise                                | 二  | 2/1、2/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 基礎光學          | Basic Optics                                                      | 二  | 2/1、2/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 生物統計學         | Biostatistics                                                     | 二  | 2/1、2/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 電腦輔助設計與分析概論   | Introduction to Computer Aided Design and Analysis                | 二  | 2/1、2/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 醫療器材設計工程      | Engineering of Medical Device Design                              | 二  | 2/1、2/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 醫用材料工程導論(二)   | Introduction to Material Medical Engineering (2)                  | 二  | 2/1、2/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 輔具與復健工程       | Assistive Devices and Rehabilitation Engineering                  | 二  | 2/1、2/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 材料分析檢測技術      | Material Analysis Technology                                      | 三  | 3/1、3/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 醫用高分子         | Medical Polymer                                                   | 三  | 3/1、3/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 細胞生物學         | Cell Biology                                                      | 三  | 3/1、3/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 進階醫學材料工程導論    | Introduction to Advanced Material Engineering                     | 三  | 3/1、3/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 薄膜工程(含實驗)     | Thin Film Engineering (Including Laboratory)                      | 三  | 3/1、3/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 基礎生醫影像處理技術    | Biomedical Image Processing Technology                            | 三  | 3/1、3/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 醫療器材設計與開發實務   | Practices in Medical Device Design Products Development           | 三  | 3/1、3/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 醫學影像系統        | Medical Imaging System                                            | 三  | 3/1、3/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 醫學儀表與測量       | Biomedical Measuring Instrument                                   | 三  | 3/1、3/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 生醫材料          | Biomaterials                                                      | 三  | 3/1、3/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 熱處理           | Heat Treatment                                                    | 三  | 3/1、3/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 焊接工程          | Welding Engineering                                               | 三  | 3/1、3/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 輕量化醫療器材設計開發   | Design and Development on Lightweight Materials of Medical Device | 三  | 3/1、3/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 臨床醫療概論        | Introduction of Clinical Medicine                                 | 三  | 3/1、3/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 生醫光電檢測(含實驗)   | Biomedical Optoelectronic Testing(Including Laboratory)           | 三  | 3/1、3/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 醫學工程實驗(三)     | Biomedical Engineering Laboratory (3)                             | 三  | 3/1、3/2 | 1 | 1 | 2 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 醫學工程實驗(四)     | Biomedical Engineering Laboratory (4)                             | 三  | 3/1、3/2 | 1 | 1 | 2 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 生醫光電系統(含實驗)   | Biomedical Optoelectronic Systems(Including Laboratory)           | 四  | 4/1、4/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 穿戴式物聯網應用      | Implementations on Internet of Wearable Devices                   | 四  | 4/1、4/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 醫療器材法規與認證     | Regulations and Certification of Medical Devices                  | 四  | 4/1、4/2 | 3 | 3 | 0 | 畢業年級相當於國內高級中等學校二年級之國外或香港、澳門同級同類學校畢業生，以同等學力就讀本校學士班者(不含已離校二年以上者及以僑先部結業成績分發入大學者)，除畢業學分數128學分外，應增修12個畢業學分 | Graduates from overseas or Hong Kong/Macau schools equivalent to the second year of senior high school in mainland China, who enroll in the university's undergraduate program based on equivalent academic qualifications (excluding those who have been out of school for over two years and those admitted to university based on Overseas Chinese Division graduation scores). In addition to the required 128 credits for graduation, these students must complete an additional 12 credits toward graduation. |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 醫藥生技與產業概論     | Introduction to the Pharmaceutical and Biotechnology Industry     | 四  | 4/1、4/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 智慧輔具設計與開發     | Design and Application of Intelligent Assistive Devices           | 四  | 4/1、4/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 醫用電子系統設計      | Design of Medical Electronic System                               | 四  | 4/1、4/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 細胞培養及應用       | Cell Culture and Application                                      | 四  | 4/1、4/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 生醫奈米科技與材料     | Biomedical Nanotechnology and Materials                           | 四  | 4/1、4/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                                           | 選                                                                                                                                                                                                                                          | Elective                                       | 再生醫學與組織工程     | Regenerative Medicine and Tissue Engineering                      | 四  | 4/1、4/2 | 3 | 3 | 0 |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 選        | Elective                                  | 臨床工程問題導向學習                                                                                                                                                                                                                                 | Problem-Based Learning of Clinical Engineering | 四             | 4/1、4/2                                                           | 3  | 3       | 0 |   |   |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 選        | Elective                                  | 逆向工程與3D列印                                                                                                                                                                                                                                  | Reverse Engineering and 3D Printing            | 四             | 4/1、4/2                                                           | 3  | 3       | 0 |   |   |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 選        | Elective                                  | 醫工全職實習                                                                                                                                                                                                                                     | Co-operative Program                           | 四             | 4/1、4/2                                                           | 9  | 0       | 0 |   |   |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 選        | Elective                                  | 視覺照護概論                                                                                                                                                                                                                                     | Introduction of Visual Care                    | 二             | 2/1、2/2                                                           | 3  | 3       | 0 |   |   |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 選        | Elective                                  | 眼球解剖與組織學                                                                                                                                                                                                                                   | Ocular Anatomy and Histology                   | 二             | 2/1、2/2                                                           | 3  | 2       | 2 |   |   |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 選        | Elective                                  | 視覺檢測技術                                                                                                                                                                                                                                     | Visual Detection Technology                    | 三             | 3/1、3/2                                                           | 3  | 2       | 2 |   |   |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 選        | Elective                                  | 視覺輔具製作                                                                                                                                                                                                                                     | Manufacture of Visual Assistive Device         | 三             | 3/1、3/2                                                           | 3  | 2       | 2 |   |   |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 自由選修9學分  | Free Elective Courses: 9 Credits          | 學生可修習跨院系領域課程做為自由學分，以增加跨界學習能力。<br>To increase students' inter-disciplinary learning ability, the school encourages students to take courses offered in different departments or colleges, which can be recognized as Free Elective credits. |                                                |               |                                                                   |    |         |   |   |   |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

◎醫學工程學系 畢業應修學分數共 128學分， 其中包含：

A.校訂必修 28 學分

B.院訂必修 2 學分

C.系訂必修 53學分

D.系訂選修 36學分

E.自由選修 9 學分

Students in the Department of Biomedical Engineering must complete a total of 128 credits to graduate, including:

A. University-Required Courses – 28 Credits

B. College-Designated Required Courses – 2 Credits

C. Department-Designated Required Courses – 53 Credits

D. Department-Designated Elective Courses – 36 Credits

E. Free Elective Courses – 9 Credits

※112年5月17日醫學工程學系第15次(112.05.17)課程委員會議通過

※112年6月19日護理暨健康學院111學年度第3次院課程委員會會議通過

※112年9月7日第38次(112.09.07)校課程委員會議通過

※113年3月26日醫學工程學系第19次(113.03.26)課程委員會議通過

※113年4月11日護理暨健康學院112學年度第3次院課程委員會會議通過

※113年6月27日大葉大學第39次(113.06.27)校課程委員會議通過

※113年11月20日醫學工程學系第23次(113.11.20)課程委員會議通過

※113年11月28日護理暨健康學院113學年度第1次院課程委員會會議

※114年1月9日大葉大學第40次(114.01.09)校課程委員會議通過

※115年2月25日醫學工程學系第32次(115.02.25)課程委員會議通過

※115年4月14日護理暨健康學院114學年度第3次院課程委員會會議通過

※115年7月30日大葉大學第 44 次(115.07.30)校課程委員會議通過

Approved at the 15th Department Curriculum Committee Meeting on May 17, 2023

Approved at the 3rd Meeting of the College Curriculum Committee on June 19, 2023

Approved at the 38th Meeting of the University Curriculum Committee, Da-Yeh University, September 7, 2023

Approved at the 19th Department Curriculum Committee Meeting on March 26, 2024  
Approved at the 3rd Meeting of the College Curriculum Committee on April 11, 2024  
Approved at the 39th Meeting of the University Curriculum Committee, Da-Yeh University, June 27, 2024  
Approved at the 23rd Department Curriculum Committee Meeting on November 20, 2024  
Approved at the 1st Meeting of the College Curriculum Committee on November 28, 2024  
Approved at the 40th Meeting of the University Curriculum Committee, Da-Yeh University, January 9, 2025  
Approved at the 32nd Department Curriculum Committee Meeting on February 25, 2026  
Approved at the 3rd College Curriculum Committee Meeting of the 114th Academic Year, April 14, 2026  
Approved at the 44th Meeting of the University Curriculum Committee, Da-Yeh University, July 30, 2026