

大葉大學 115學年度新生入學四年學程  
115 Academic Year Bachelor Degree Program, Da-Yeh University

院別：生物科技暨資源學院 系別：生物醫學系 畢業總學分:128學分

製表日期:2026.07.30

Department of Biomedical Sciences, College of Biotechnology and Bioresources Total Credits: 128

Publish Date : Jul. 30, 2026

| 類別                 | Category                                | 必選別 | Required/<br>Optional | 科目名稱       | Course Title                                 | 修課<br>年<br>級、<br>學期<br>別 | Acade<br>mic<br>Year/S<br>emeste<br>r | 科目代號<br>Course<br>Number | 學分<br>數<br>Credit<br>s | 每週上課時<br>數 Class<br>Hours |                   | 備註                                                                                                                                                        | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------|-----------------------------------------|-----|-----------------------|------------|----------------------------------------------|--------------------------|---------------------------------------|--------------------------|------------------------|---------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                                         |     |                       |            |                                              |                          |                                       |                          |                        | 講授<br>Lectu<br>re         | 實習<br>(驗)<br>Lab. |                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| A.校定<br>必修30<br>學分 | University<br>required<br>30<br>credits | 必   | Required              | 國文能力       | Chinese Language Proficiency                 | 一上<br>下                  |                                       |                          | 2                      | 2                         | 0                 |                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                    |                                         | 必   | Required              | 運算思維       | Computational Thinking                       | 一上<br>下                  |                                       |                          | 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」<br>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<br>班級，課程名稱不<br>同。<br>例:初級英語聽力與口<br>語(一)、中級英語聽<br>力與口語(一)、中高<br>級英語聽力與口語(一)、<br>高級英語聽力與口語<br>(一)。 | The four courses in<br>the "Fundamental<br>English" category have the<br>following features:<br>a.) English-taught<br>instruction<br>b.) Student attending<br>placement tests prior formal<br>classes<br>c.) Students are divided<br>into classes of different<br>levels according to the<br>results of the English<br>proficiency placement test,<br>including<br>Elementary English<br>Listening and Speaking (1)<br>Intermediate English<br>Listening and Speaking(1)<br>Upper-Intermediate English<br>Listening and Speaking(1)<br>Advanced English Listening<br>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                 | 美學與文化、社會脈<br>動與公民、國際視野<br>與史觀、科技與永續<br>發展共四大向度，每<br>向度均須選修核心課<br>程至少2學分，另須選<br>修多元延伸課程至少2<br>學分，每向度及多元<br>延伸之修課學分數2-4<br>學分，合計16學分。                       | General education at Da-<br>Yeh University provides<br>core courses and diversified<br>extension courses. Core<br>courses build on four<br>dimensions: Aesthetics and<br>Culture, Social Dynamics<br>and Citizenship,<br>international Perspectives<br>and Historiography, and<br>Science-technology and<br>Sustainable Development,<br>each requiring 2 to 4 credits.<br>Diversified extension<br>courses require 2 to 4<br>credits. General education                                                                                                                               |
|                    |                                         | 必   | Required              | 英語文能力檢定    | Qualification Test of English<br>Proficiency |                          |                                       |                          | 0                      | 0                         | 0                 | 學生於大一下學期結<br>束前均須參加英文檢<br>定校園考或校外英文<br>檢定測驗，成績須達<br>多益400分以上(或<br>CSEPT第一級170分，<br>或全民英檢中級初試<br>通過，或托福、雅思<br>等其他同等級之測驗<br>分數)。<br>依大葉大學學生英文<br>能力檢定實施辦法辦  | Students are required to sit<br>in for campus/off-campus<br>English proficiency tests<br>before the end of freshman<br>year. The passing<br>requirement for each<br>proficiency test is described<br>below:<br>TOEIC 400/ 1st-level<br>CSEPT 170/ Intermediate<br>GEPT/TOEFL or IELTS<br>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<br>基本能力檢定實施辦<br>法辦理。                                                                                                                            | One of the following<br>Microsoft Office<br>certifications is required for<br>graduation.<br>1.Microsoft Office<br>Specialist(MOS) in Word<br>2.Microsoft Office<br>Specialist(MOS) in                                                                                                                                                                                                                                                                                                                                                                                                |
|                    |                                         | 必   | Required              | 中文能力檢定     | Chinese Language Proficiency Test            |                          |                                       |                          | 0                      | 0                         | 0                 | 依大葉大學學生中文<br>能力檢定辦法辦理。                                                                                                                                    | Conduct according to<br>Chinese Language<br>Proficiency Test regulation<br>of Da-Yeh University.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                    |                                         |     |                       |            |                                              | 一上                       | 1/1                                   |                          | 1                      | 2                         | 0                 | 大一每學期均須修<br>習，每學期1學<br>分。                                                                                                                                 | Required for<br>freshman; 1 credit for<br>each semester.Physical<br>Education Required is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|            |                                | 必        | Required                             | 體育           | Physical Education                                |          |     |          |   |   |   |                                                                                                                                                                                                                                                                                                            |            | Education required is not included in the graduation credit. |
|------------|--------------------------------|----------|--------------------------------------|--------------|---------------------------------------------------|----------|-----|----------|---|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------|
|            |                                |          |                                      |              |                                                   | 一下       | 1/2 |          | 1 | 2 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
| B.院定必修21學分 | College required 21 credits    | 必        | Required                             | 普通生物學（一）     | Biology (1)                                       | 一上       | 1/1 | MBI01023 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 普通化學         | General Chemistry                                 | 一上       | 1/1 | MBI01003 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 普通生物學(二)     | Biology (2)                                       | 一下       | 1/2 | MBI01002 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 基礎微生物學       | Basic Microbiology                                | 一上/一下    | 1/1 | MBI01039 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 生物化學（一）      | Biochemistry (1)                                  | 二上       | 2/1 | MBI02012 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 生物化學（二）      | Biochemistry (2)                                  | 二下       | 2/2 | MBI03004 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 生物統計學        | Fundamental Statistics                            | 二下       | 2/2 | MBI02008 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
| C.院定選修3學分  | College optional 03 credits    | 選        | Optional                             | 免疫學          | Immunology                                        | 三        | 3   | MBI03018 | 3 | 3 | 0 | 超過3學分部分可當自由學分                                                                                                                                                                                                                                                                                              |            |                                                              |
|            |                                | 選        | Optional                             | 細胞生物學        | Cell Biology                                      | 三        | 3   | MBI02036 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 微生物學         | Microbiology                                      | 一下       | 1/2 | MBI01035 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 普通生物學實驗      | Biololgy Laboratory                               | 一上       | 1/1 | MBI01090 | 1 | 0 | 3 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 普通化學實驗       | General Chemistry Laboratory                      | 一上       | 1/1 | MBI01092 | 1 | 0 | 3 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 微生物學實驗       | Microbiology Laboratory                           | 一下       | 1/2 | MBI02091 | 1 | 0 | 3 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 有機化學         | Organic Chemistry                                 | 二上       | 2/1 | MBI02037 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 遺傳學          | Genetics                                          | 二上       | 2/1 | MBI02010 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 生物化學實驗       | Biochemistry Laboratory                           | 二下       | 2/2 | MBI03090 | 1 | 0 | 3 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 書報討論(一)      | Journal Club(1)                                   | 三上       | 3/1 | MBI04080 | 1 | 1 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 分子生物學(一)     | Molecular Biology (1)                             | 三上       | 3/1 | MBI03001 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 書報討論(二)      | Journal Club(2)                                   | 三下       | 3/2 | MBI04081 | 1 | 1 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 分子生物學(二)     | Molecular Biology (2)                             | 三下       | 3/2 | MBI03002 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 分子生物學實驗      | Molecular Biology Laboratory                      | 三下       | 3/2 | MBI03091 | 1 | 0 | 3 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 專題研究（一）      | Special Practice in Research (1)                  | 三下       | 3/2 | MBI03092 | 1 | 0 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 專題研究（二）      | Special Practice in Research (2)                  | 四上       | 4/1 | MBI04090 | 1 | 0 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 書報討論(三)      | Journal Club (3)                                  | 四上       | 4/1 | MBI04082 | 1 | 1 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 必        | Required                             | 書報討論(四)      | Journal Club (4)                                  | 四下       | 4/2 | MBI04083 | 1 | 1 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
| E.系定選修34學分 | Department optional 34 credits | 選        | Optional                             | 醫藥生技概論       | Introduction of Pharmaceutical Science            | 一        | 1   | MBI01038 | 3 | 3 | 0 | 「生物醫藥組」專長分攻核心課程：修畢此組課程30學分，並從「檢驗醫學組」專業模組課程自由選修9學分，頒予組專長分攻證明書。<br>Biopharmaceutics Group Core Courses.Certificate of Specialist in Biopharmaceutics will be awarded when 30 credits earned from Biopharmaceutics Group Core Courses & 9 credits earned from Medical Laboratory Sciences Group Core Courses. | 校外實習時數80小時 |                                                              |
|            |                                | 選        | Optional                             | 藥用植物組織培養學與實習 | Medicinal Plant Tissue Culture                    | 二        | 2   | MBI1036  | 3 | 2 | 2 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 藥學導論         | Orientation in Pharmacy                           | 二        | 2   | MBI02049 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 生理學          | Physiology                                        | 二        | 2   | MBI02048 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 疫苗與藥物開發      | Vaccine & Drug Development                        | 三        | 3   | MBI03094 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 藥物基因體學       | Pharmacogenomics                                  | 三        | 3   | MBI03095 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 細胞培養技術       | Cell Culture                                      | 三        | 3   | MBI3096  | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 訊息傳遞學        | Cell signal Transduction                          | 四        | 4   | MBI04005 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 基因轉殖技術       | Gene Transfer Technology                          | 四        | 4   | MBI04023 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 現代神經科學       | Modern Neuroscience                               | 四        | 4   | MBI04028 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 幹細胞與再生醫學     | Stem Cell and Regenerative Medicine               | 四        | 4   | MBI04034 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 癌症生物學        | Cancer Biology                                    | 四        | 4   | MBI03028 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 藥用植物生理學      | Medicinal Plant Physiology                        | 四        | 4   | MBI03013 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 神經退化性疾病專論    | Overview of Neurodegenerative Disease             | 四        | 4   | MBI04027 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 生物技術與智慧財產權   | Biotechnology and Intellectual Property Rights    | 二        | 2   | MBI02033 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 醫藥產業經營與管理    | Management of Pharmaceutical Industry             | 二        | 2   | MBI02046 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 醫藥檢驗分析技術     | Pharmaceutical Detection and Analytical Technique | 二        | 2   | MBI02052 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 發育生物學        | Introduction to Developmental Biology             | 二        | 2   | BBI02004 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 生物醫材         | Biomaterials                                      | 二        | 2   | MBI03029 | 3 | 3 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
|            |                                | 選        | Optional                             | 醫療業界實習       | Practical Training in Biomedical Industry         | 二        | 2   | MBI2054  | 1 | 0 | 0 |                                                                                                                                                                                                                                                                                                            |            |                                                              |
| 選          | Optional                       | 病原分子致病機制 | Molecular Mechanisms of Pathogenesis | 三            | 3                                                 | MBI04014 | 3   | 3        | 0 |   |   |                                                                                                                                                                                                                                                                                                            |            |                                                              |
| 選          | Optional                       | 活性天然物化學  | Active Natural Products Chemistry    | 三            | 3                                                 |          | 3   | 3        | 0 |   |   |                                                                                                                                                                                                                                                                                                            |            |                                                              |

|            |                        |   |          |                             |                                                                                                                      |   |   |          |   |   |   |                                                  |             |
|------------|------------------------|---|----------|-----------------------------|----------------------------------------------------------------------------------------------------------------------|---|---|----------|---|---|---|--------------------------------------------------|-------------|
|            |                        | 選 | Optional | 生技業界實習                      | Practical Training in Bioindustry                                                                                    | 三 | 3 | MBI03023 | 2 | 0 | 0 | earned from Biopharmaceutics Group Core Courses. | 校外實習時數160小時 |
|            |                        | 選 | Optional | 真核分子生物技術                    | Eukaryotic Molecular Biotechnology                                                                                   | 三 | 3 | MBI03024 | 3 | 3 | 0 |                                                  |             |
|            |                        | 選 | Optional | 基礎生物醫學資訊學                   | Fundamental Medical Bioinformatics                                                                                   | 三 | 3 | MBI03027 | 3 | 3 | 0 |                                                  |             |
|            |                        | 選 | Optional | 醫藥生技之臨床應用                   | Clinical Application of Pharmaceutical Biotechnology                                                                 | 三 | 3 | MBI03025 | 3 | 3 | 0 |                                                  |             |
|            |                        | 選 | Optional | 生物晶片原理與應用                   | The Principle and Application of Biochips                                                                            | 三 | 3 |          | 3 | 3 | 0 |                                                  |             |
|            |                        | 選 | Optional | 基因檢測及分子診斷                   | Gene Detection and Molecular Diagnosis                                                                               | 四 | 4 | MBI03026 | 3 | 3 | 0 |                                                  |             |
|            |                        | 選 | Optional | 病毒學                         | Virology                                                                                                             | 四 | 4 | MBI04018 | 3 | 3 | 0 |                                                  |             |
|            |                        | 選 | Optional | 科技英文                        | Technical English                                                                                                    | 四 | 4 | MBI04032 | 3 | 3 | 0 |                                                  |             |
|            |                        | 選 | Optional | 影像醫學                        | Medical Imaging                                                                                                      | 四 | 4 |          | 3 | 3 | 0 |                                                  |             |
|            |                        | 選 | Optional | 人工智慧醫療                      | Artificial Intelligence Medicine                                                                                     | 四 | 4 |          | 3 | 3 | 0 |                                                  |             |
|            |                        | 選 | Optional | 臨床試驗設計                      | Clinical Trial Design                                                                                                | 四 | 4 |          | 3 | 3 | 0 |                                                  |             |
|            |                        | 選 | Optional | 全職實習(一)                     | Full Time Internship (1)                                                                                             | 四 | 4 | MBI04022 | 7 | 0 | 0 |                                                  | 校外實習時數560小時 |
|            |                        | 選 | Optional | 全職實習(二)                     | Full Time Internship (2)                                                                                             | 四 | 4 |          | 7 | 0 | 0 |                                                  | 校外實習時數560小時 |
| F.自由選修14學分 | Free selective courses | 選 | Optional | 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 | Students can attend cross-department course as free selective course credits to increase crossover learning ability. |   |   |          |   |   |   |                                                  |             |

◎生醫系 畢業應修足學分數共128學分， 其中包含：

Total Credits for Department of Biomedical Sciences

A. 校定必修 30學分

University required 30 credits

B. 院定必修 21學分

College required 21 credits

B. 院定選修 3學分

College optional 03 credits

C. 系定必修 26學分

Department required 26 credits

D. 系定選修 34學分

Department optional 34 credits

◎實習學分(含生技業界實習、醫療業界實習、全職實習(一)、全職實習(二))畢業學分可認抵上限為18學分

E. 自由選修 14學分

Free selective courses 14 credits

※115年3月25日生物醫學系114-2學期第1次系課程委員會會議通過

Approved at the 1th Department Curriculum Committee Meeting on March 25, 2026

※115年4月15日生物科技暨資源學院114學年度第2學期第2次院課程委員會會議通過

Approved at the 2nd Curriculum Committee Meeting of the College of Biotechnology and Resources for the 2nd Semester of Academic Year 114 on April 15, 2026

※115年6月12日生物科技暨資源學院114學年度第2學期第4次院課程委員會會議通過

Approved at the 4th Curriculum Committee Meeting of the College of Biotechnology and Resources for the 2nd Semester of Academic Year 114 on June 12, 2026.

※115年6月15日生物醫學系114-2學期第3次系課程委員會會議通過

Approved at the 3th Department Curriculum Committee Meeting on June 15, 2026

※115年7月30日第44次校課程委員會會議通過

Approved at the 44st Meeting of the University Curriculum Committee, Da-Yeh University, July 30, 2026