

生物多樣性專業學程
(Advanced Program in Biodiversity)

April 2026 revision

一、設置宗旨: 環境壓力包括全球暖化、農藥及污染日益嚴重，衝擊全球生態系造成物種滅絕，而生物多樣性是監測生態系穩定的重要指標。此學程融合生物多樣性、演化和動物行為的專業知識，輔以解決這些問題的高科技研究應用，培養具生物多樣性視野及專業知識的專業人才，以因應環境壓力造成物種滅絕的衝擊。學生完成此學程，由生醫系發給「生物多樣性專業學程」證書。

1. Setting purpose: Environmental stress including global warming, pesticide, and pollution has seriously impacted the global ecosystem and caused species extinction. Biodiversity is an important indicator for ecosystem stability. This program integrates professional knowledge of biodiversity, evolution and animal behavior, supplements the high-tech research applications to solve problems, and cultivates professionals with biodiversity perspective and professional knowledge to cope with the impact of species extinction caused by environmental stress. After students complete this course, our department will issue a "Biodiversity Professional Course" certificate.

二、設置單位: 長庚大學生物醫學系。

2. Setting unit: Department of Biomedicine, Chang Gung University.

三、修業對象: 本校全體學生皆可選修，須修畢一年級上學期普通生物學。

3. Course objects: All students in our school can take this course, and they must have completed the first semester of first-year general biology.

四、修習學分及規定: 學生必須完成下列課程共 14 credit。

4. Study credits and regulations: Students must complete the following courses for a total of 14 credits.

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5. Program convener: Professor Hsu Chin-Yuan (Ext. 3402, Email: hsu@mail.cgu.edu.tw)

六、學程課程規劃:

6. Academic course planning:

| 課程分類 Course sorts | 課程名稱 Course Title | 科目代號 Account code | 學分 credit | 開課學期 Semester | 負責教師 Teacher |
|---|--|--|--------------|------------------|-----------------|
| 基礎(必修)Foundation course | 台灣本土生物多樣性 Taiwan biodiversity | LS1103 | 2 | 一下 | 徐錦源 |
| 核心 Core courses (必須至少 修畢 8 學分) | 環境變遷與永續發展策略 Environmental changes and sustainable development strategies | GA0018 | 2 | 一上 | 陳効謙 |
| | 能源與文明永續 Energy and civilization sustainability | GA0020 | 2 | 一上 | 邱紹玄 |
| | 環境教育與永續發展 Environmental education and sustainable development | GA0016 | 2 | 一下 | 王永樑 |
| | 自然生態文學 Natural ecological literature | GH0054 | 2 | 二上 | 韓學宏 |
| | 動物行為 Animal behavior | LS2109 | 2 | 三上 | 徐錦源 |
| | 生物演化 Evolutionary biology | LS2007 | 2 | 三下 | 徐錦源 |
| | 人類分子遺傳學 Human molecular genetics | BMM216/LS4124 Master's and bachelor's classes* | 2 | 四下 | 徐錦源 |
| 應用(必修)Applied courses | 模式動物:蜜蜂 An animal model: honey bees | BMM486/LS3153 Master's and bachelor's classes* | 2 | 三上 | 徐錦源 |
| | 老化研究特論 Special topics in aging research | BMM485/LS4121 Master's and bachelor's classes* | 2 | 四上 | 徐錦源 |

*115 學年度後改為生醫所單獨開課。

七、其他特殊規定之事項:

本學程之通識課程，修畢後不得列入生醫系畢業所需之專業選修學分。