

# UC Davis 3+X 學碩計畫 & GREAT 簡介

## Introduction to the UC Davis 3+X Master's Program & GREAT

生物科技發展中心

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Biotechnology Center

NCHU

2024.12.30



**UC Davis 3+X 學碩計畫**  
**UC Davis 3+X Master's Program**



# 特色 Features

1

利用**三年**的時間修畢本校大學科系所需的畢業學分，獲本校推薦並獲UCD錄取者可於**第四年**前往UCD就讀**Global Study Program (GSP)** 一學季(約4個月)，取得本校畢業證書，進入**UCD Master's Program**就讀，**省下一年的時間取得UCD的碩士學位**。

Students who complete the required graduation credits for their university program **within three years** and receive a recommendation from our university for admission to UCD will have the opportunity to attend the **Global Study Program (GSP)** at UCD for one semester (approximately 4 months) in **their fourth year**.

Upon completion, they will obtain a graduation certificate from our university and can then enter the UCD Master's Program, saving **one year** in obtaining **their Master's degree** from UCD.



# 優勢 Advantages

2

優勢：① 快速且資源豐富的就讀管道 ② 獲得本校補助獎學金 ③ 選擇多元：  
可選擇修習寫論文或免寫論文的碩士學位

## Advantages:

- 1) Fast and resource-rich admission pathways.
- 2) **Availability of scholarships provided by the university (MOE).**
- 3) Diverse options: Students can decide to pursue a master's degree either with or without a thesis.

### Master Degree選擇 Two options for the Master's program

#### Thesis Option (I)

--需寫論文、完成至少30學分

--Requires the completion of at least 30 credits in addition to a thesis.

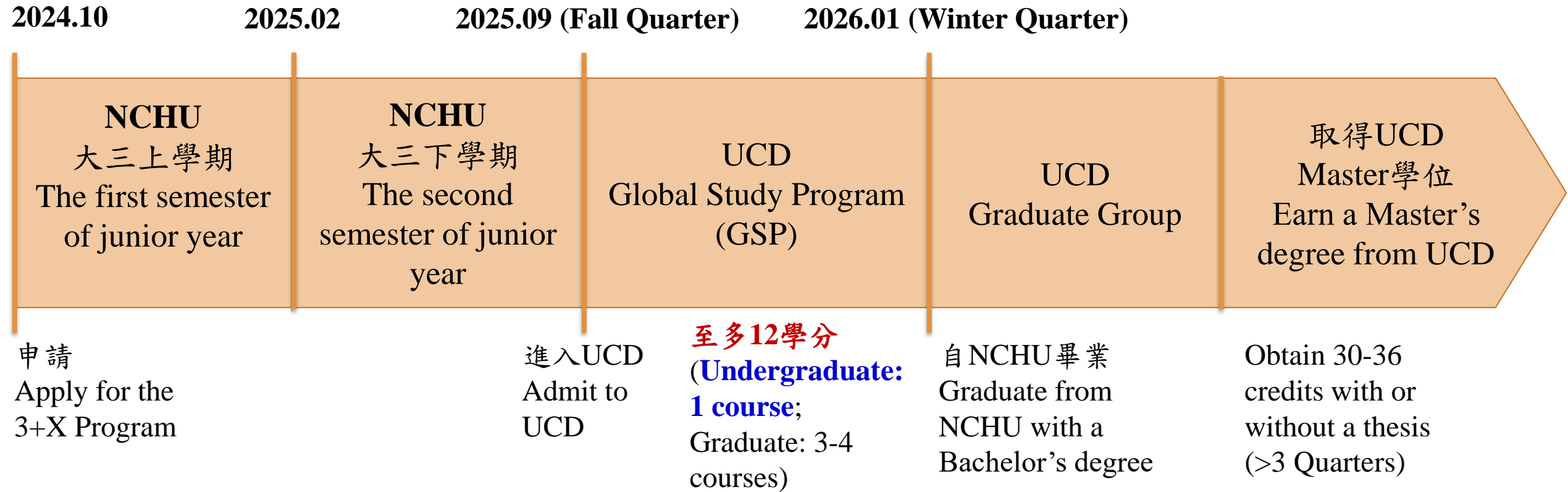
#### Non-Thesis Option (II)

--**無**需寫論文、**需**完成至少36學分

--Requires the completion of at least 36 credits without a thesis.



# 時程 Timeline



The 3+X Program



# 合作科系一覽 Collaborating Departments

目前本校已有13個科系加入3+X's program，對應UCD 9個所

UCD Graduate Group 碩士班	國立中興大學大學部 NCHU Undergraduate Program
Agricultural and Resource Economics (ARE)	應經系 Applied Economics 國農學程 International Bachelor Program in Agribusiness
BioSystems Engineering	生物產業機電工程學系 Bio-industrial Mechatronics Engineering
Computer Science	資工系 Computer Science and Engineering
Civil and Environmental Engineering	土木系 Civil Engineering、環工系 Environmental Engineering
Electrical and Computer Engineering	電機系 Electrical Engineering
Molecular, Cellular, and Integrative Physiology (MCIP)	<b>生科系 Life Sciences</b> 生物科技學士學位學程 Bachelor Program in Biotechnology
Plant Biology	農藝系 Agronomy、園藝系 Horticulture <b>生科系 Life Sciences</b> 、植病系 Plant Pathology
Plant Pathology	植病系 Plant Pathology
Entomology	昆蟲系 Entomology

# 各科系申請時程表 (2024年) Application Due Dates by Department

UCD Department (Graduate Group)	NCHU Department	優先申請截止 日期 Priority Application Deadline	普通申請截止 日期 Regular Application Deadline	額外申請截止 日期 Additional Application Deadline	是否需GRE Is GRE Required
Agricultural and Resource Economics (ARE)	應經系 Applied Economics 國農企學程 International Bachelor Program in Agribusiness	1/15	4/15	--	Y
Civil and Environmental Engineering (CEE)	土木系 Civil Engineering 環工系 Environmental Engineering	12/15	2/1	6/1	N
Electrical and Computer Engineering (EE)	電機系 Electrical Engineering	--	1/15	6/1	N
<b>Molecular, Cellular, and Integrative Physiology (MCIP)</b>	生物科技學士學位學程 Bachelor Program in Biotechnology 生科系 Life Sciences	--	<b>12/1</b>	--	<b>N</b>
<b>Plant Biology</b>	生科系 Life Sciences、植病系 Plant Pathology 園藝系 Horticulture、農藝系 Agronomy	--	<b>12/1</b>	6/1	<b>N</b>
Plant Pathology	植病系 Plant Pathology	--	1/5	--	N
Computer Science	資工系 Computer Science and Engineering	--	12/15	--	N
Biological Systems Engineering	生機系 Bio-industrial Mechatronics Engineering	1/15	4/1	6/1	Y
Entomology	昆蟲系 Department of Entomology	--	1/5	--	Y

本表為參考資訊，請依UCD系所網頁公告之資訊為主 This table is for reference only. Please refer to the information provided on the UCD department's official website.



# 申請MCIP必修課程

<https://mcip.ucdavis.edu/apply>

- ▶ **Biology:** One year of General Biology or equivalent content

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- ▶ **Biochemistry:** Two quarters or one semester Introductory Biochemistry, or equivalent content

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- ▶ **Biochemistry or Cell Biology Lab:** One quarter or semester Biochemistry or Cell Biology Laboratory, or equivalent content

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- ▶ **Chemistry:** One year General Chemistry with laboratory, or equivalent content

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- ▶ **Organic Chemistry:** Two quarters or one semester Organic Chemistry with laboratory, or equivalent content

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- ▶ **Mathematics:** One year Calculus and Analytical Geometry, or equivalent content

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- ▶ **Physics:** One year General Physics with laboratory, or equivalent content

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- ▶ **Statistics:** One quarter or semester Introduction to Statistics, or equivalent content





# 申請Plant Biology必修課程 <https://pbi.ucdavis.edu/apply>

- › **Biology:** One year of General Biology or equivalent content (Biological Sciences: BIS 2A, B and C)
- › **Biochemistry:** Introductory Biochemistry, two quarters, one semester, or equivalent content (Biological Sciences: BIS 102 and 103)
- › **Inorganic Chemistry:** One year Inorganic Chemistry or equivalent content (Chemistry: CHE 2A, B and C)
- › **Organic Chemistry:** Two quarters, two semesters, or equivalent content (Chemistry: CHE 8A and 8B)
- › **Physics:** Introductory Physics, two quarters, two semesters, or equivalent content (Physics: PHY 7A and 7B)
- › **Mathematics:** Calculus, two quarters, one semester, or equivalent content (Mathematics: MAT 16A and 16B)
- › **Statistics:** Introduction to Statistics one quarter, one semester, or equivalent content (Statistics: STA 100; or Plant Sciences: PLS 120)
- › **Genetics:** One quarter, one semester, or equivalent content (Biological Sciences: BIS 101)
- › **Intro. Plant Physiology:** One quarter, one semester, or equivalent content (Plant Biology: PLB 111 or 112)
- › **Cell and Molecular Biology:** One quarter, one semester, or equivalent content (Plant Biology: PLB 113; or Biological Sciences: BIS 104)
- › **Ecol. Systematics & Evolution:** One quarter, one semester, or equivalent content (Evolution and Ecology: EVE 100, 140 or 141; or Plant Biology: PLB 108 or 117)
- › **Plant Development and Structure:** One quarter, one semester, or equivalent content (Plant Biology: PLB 105)

# 本校3+X's推廣現況 Current Status of the 3+X's Program in NCHU

## 發展歷程及成果 Development History and Achievements

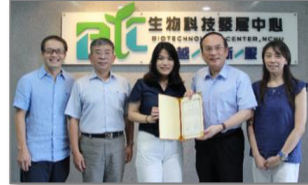
2020.6

正式簽訂合約  
Signed the Contract



2020.9

選送第一屆學生 (1名)  
The 1<sup>st</sup> Batch of Student



應經系楊同學  
Applied Economics

(已於110年8月取得UCD碩士學位)  
Obtained a Master's degree from  
UCD in August 2021

2021.9

選送第二屆學生 (3名)  
The 2<sup>nd</sup> Batch of Students



應經系陳同學 & 鄭同學、土木系吳同學  
Admitted students from Department of Applied Economics and  
Department of Civil Engineering

(皆於111年取得UCD碩士學位，陳、吳同學於美國就業)  
All obtained a Master's degree from UCD in 2022

2022.9

選送第三屆學生 (2名)  
The 3<sup>rd</sup> Batch of Students



應經系盧同學 & 陳  
同學  
Applied Economics

All obtained a  
Master's degree  
from UCD in 2023.

2023.9

選送第四屆學生 (3名)  
The 4<sup>th</sup> Batch of Students



應經系卓同學 & 王同學、  
電機系陳同學

Admitted students from Department of  
Applied Economics and Department of  
Electrical Engineering

2024.9

選送第五屆學生 (3名)  
The 5<sup>th</sup> batch of Students



應經系黃同學 & 范同學、土木系高同學  
Admitted students from Department of Applied Economics and  
Department of Civil Engineering

2024.12

簽訂延續合約  
Extend the Contract (in  
Progress)



# 3+X's 學碩計畫詳細資訊

## Details on the 3+X Master's Program

生物科技發展中心首頁 → NCHU-UCD  
→ 3+X學碩計畫

Biotechnology Center Homepage →  
NCHU-UCD → 3+X Master's Program



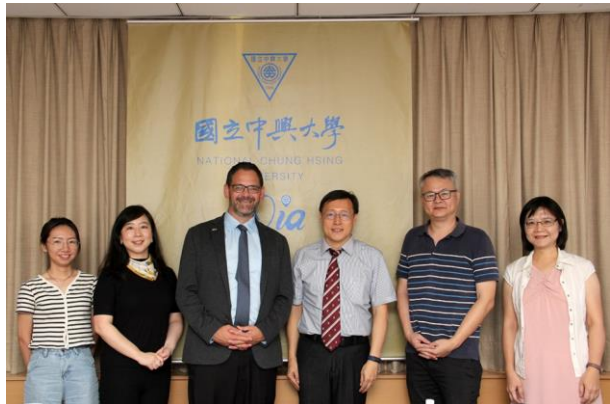
### Jake Hosier

Director of Access Programs at UC  
Davis  
Continuing and Professional Education

### Xin Chen

Associate Director of International  
Partnerships and Development  
Access Programs, Continuing and  
Professional Education

2023.10



2024.9



2024.9







# UC Davis 大專生暑期研習計畫

## UC Davis GREAT





## 背景說明

- ◆ GREAT Program 係UC Davis專為全球合作機構的大學生規劃的**暑期實驗室研習計畫**。
- ◆ 申請本計畫的學生需由其所在大學推薦，並獲本計劃之學術負責人核准。
- ◆ 獲推薦者可依據其研究興趣和所學背景，洽詢UC Davis相關專業領域的實驗指導老師。
- ◆ 本校今年9月首度獲邀加入**GREAT**。



## 計畫亮點

- ◆ 在UC Davis教授指導下，於先進的實驗室中進行實驗。
- ◆ 可修習學術論文撰寫課程，獲得UC Davis的正式學分。
- ◆ 提升申請UC Davis碩、博士班的競爭優勢。
- ◆ 可參加UC Davis的跨學科學術研討會，與跨學科研究的學者和學生交流。
- ◆ 享受一次前往北加州風景名勝地的文化和休閒之旅。



# UC Davis 配合科系

- 1 • 計算機科學與工程系  
Computer Science and Engineering
- 2 • **健康與生物科學系**  
**Health and Biological Sciences**
- 3 • **生物醫學工程系**  
**Biomedical Engineering**
- 4 • 化學與化學工程系  
Chemistry and Chemical Engineering
- 5 • 機械與航空工程系  
Mechanical and Aerospace Engineering
- 6 • 土木與環境工程系  
Civil and Environmental Engineering
- 7 • 物理系  
Physics
- 8 • **植物生物學與環境科學系**  
**Plant Biology and Environmental Sciences**
- 9 • 數學與統計系  
Mathematics and Statistics



## 研習期間

- 2025年暑假期間，共計8週。
- 7/7 新生訓練。
- 8/29結業典禮。





# 申請資格

- ◆ 大二、大三生，不限科系(需全程在籍)。
- ◆ 最近一次學期GPA達 **3.4/4.0以上(UC Davis)**，相當於**85分以上**(本校**3.65/4.3**)。
  - ◆ 大二(大一下學期)；大三(大二下學期)
- ◆ 英文成績達**TOEFL IBT 80**，**TOEFL PBT 550**，或**IELTS 7**以上。

# 申請流程





1月

UCD  
審查

UCD公布  
審查結果

1週內回覆  
確認參加  
• 300美元名額押金

2月

NCHU  
報到

生科中心  
簽約手續  
• 回國繳交心得

申請其他  
獎補助

預備  
出國

UCD提供  
歡迎資訊

住宿/簽證/  
機票...

GREAT  
Program

7/7 新生訓  
練

8/29 結業



# 費用

- ◆ 本計畫費用由獲推薦同學自行負擔。
- ◆ 生科中心視情況協助同學申請獎助學金（非全額）。
- ◆ 獎助學金補助時間依主責單位作業流程而定。

項目	費用(美元)	總計
線上註冊費	50	4,450 美元 (約14.7萬台幣/ 匯率1:33)
名額押金	300	
GREAT 課程費用	4,100	

\*另須自行負擔簽證、交通費、保險費、生活費、住宿費、餐費及其他個人開銷。

\*課程費用含：training/research expenses、course registration fees、visa expenses



# GREAT詳細資訊

生物科技中心相關資訊網頁  
(Biotechnology Center information webpage)



UCD GREAT官網



生科中心申請公告

感謝聆聽，歡迎提問！



活動問卷調查  
Event Survey

敬請協助填寫問卷，以利本中心改進，非常感謝！

**Please assist by completing the questionnaire to help our center improve. Thank you very much!**