National Taiwan University

APPLICATION PERIOD
8.3 ➔ 12.18

2021 Fall Semester

Catch the Trend, Be an INTERDISCIPLINARY INNOVATOR

MASTER PROGRAM IN GLOBAL AGRICULTURE TECHNOLOGY AND GENOMIC SCIENCE

Digital Agriculture Science and Technology
Genomic Science and Breeding Technology

INTERDISCIPLINARY PROGRAM

SCHOLARSHIP
NTU Global ATGS Scholarship
NTU-SEARCA Joint Scholarship Program Open to nationals of the SEAMEO member countries

INDUSTRY AND INTERNATIONAL RESEARCH INSTITUTE INTERNSHIP OPPORTUNITIES

ENGLISH-INSTRUCTED PROGRAM

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How to apply | Why choose us
INDUSTRY AND INTERNATIONAL RESEARCH INSTITUTE INTERNSHIP OPPORTUNITIES

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CURRICULUM

Global ATGS has two main focuses, including

- Digital Agriculture Science and Technology
- Genomic Science and Breeding Technology

COMPULSORY COURSES

- Global Agriculture Technology Foresight
- Mathematical Method for Life Science
- Scientific Writing and Presentations

ELECTIVE COURSES

- Agriculture of Taiwan
- Introduction to Bioinformatics
- Crop Modeling
- Plant Phenotyping

Digital Agriculture Science and Technology

- Control System for Smart Agriculture
- Plant Factory
- Waste Treatment Engineering
- Special Topics in Poultry Production Medicine and Products Processing
- Smart Technology Applied to Livestock Production
- Application of Blockchain Technology in Agriculture

Genomic Science and Breeding Technology

- Genetics and Genomics
- Crop Genomic Breeding
- Advanced Plant Molecular Biology
- Biotechnology Core Techniques: DNA, RNA and Protein

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TAIWAN is an island in East Asia from tropical in the south to subtropical in the north with beaches and coral reef off the astonishing seashore. It has the highest density of high mountains in the world and heavily forested, thus making it home to rich biodiversity. The Master’s Program in Biodiversity is an interdisciplinary and English-instructed program at National Taiwan University that aims to cultivate global talents with advanced knowledge and practical competences in biodiversity conservation and management. The course is designed to equip students with transformative skills and new technologies to conserve biodiversity and incorporating it into policy-making and business, in considering socio-economic gains of saving biodiversity. Students will engage in field study, enterprise internship in biodiversity conservation projects and experience large amount of biodiversity in Taiwan.

### Compulsory courses
- Exploring Taiwan and Southeast Asia
- Human Dimension in Biodiversity
- Ecosystem Service and Sustainability

### Elective modules
- **Foundations of Biodiversity**
  - Climate Change and Biodiversity
  - Pollination and Alpine Ecology
  - Tropical Plant Diversity and Conservation
- **Methodology & Technology**
  - Computer-Intensive Statistics in Ecology
  - Introduction to R for Ecologists
  - Research Methods in Ecology
- **Human Dimension**
  - Biodiversity and Sustainable Development
  - Environmental Communication
  - Ecological Economy
- **Ecosystem Service**
  - Conservation Governance
  - Biodiversity Resource Management
  - Eco-Tourism and Biodiversity

### Field Course + Research or Industry Internship

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