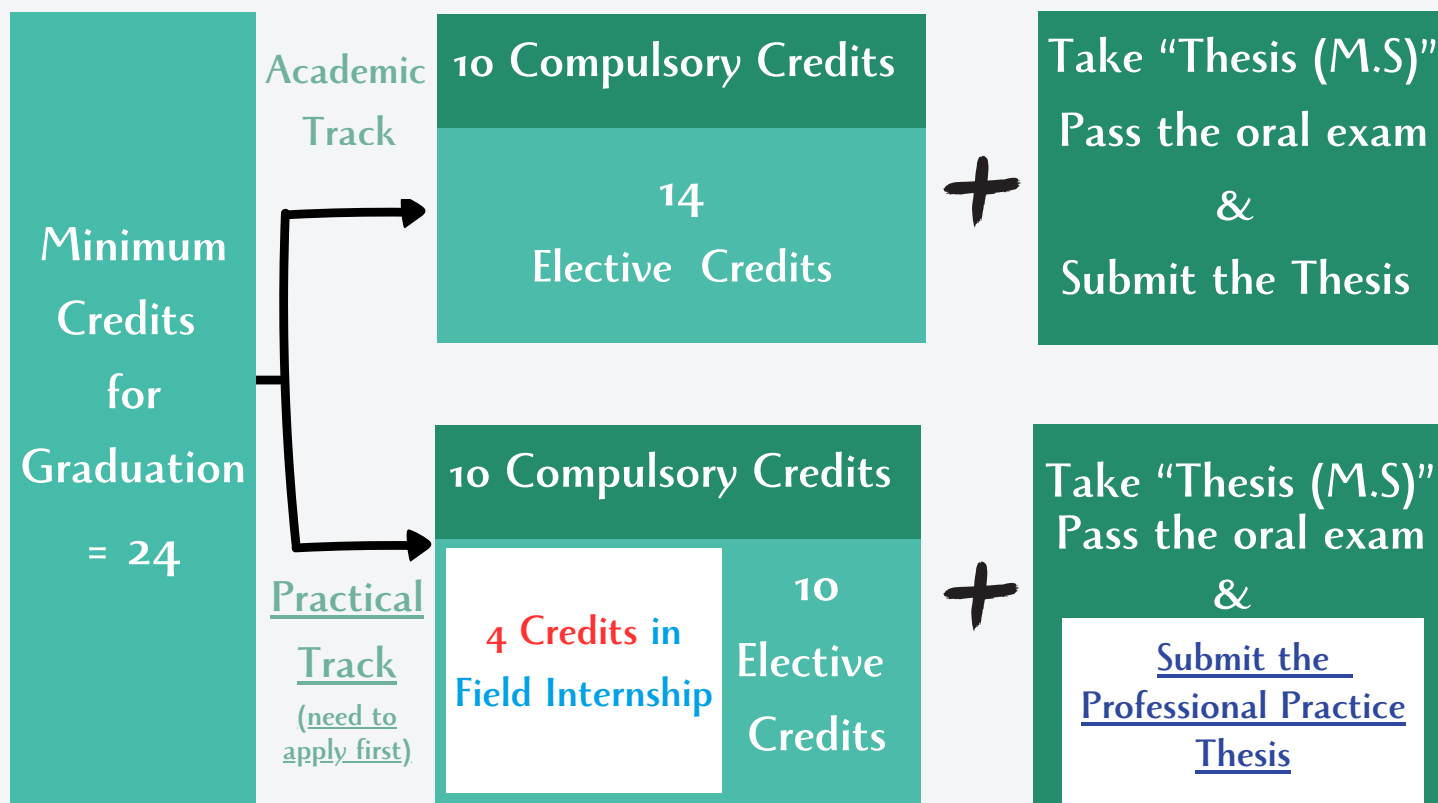


Curriculum List of

M.S. Program in Global Agriculture Technology and Genomic Science



*Note: If you wish to count courses offered by other departments toward your graduation credits, please complete and submit the required [form](#) to the office. Note that the Global ATGS program will recognize a maximum of 6 credits from these courses.

DA: Digital Agriculture / GB: Genomics and Breeding

Compulsory Course (DA+GB)			
Course Title	Instructor	Credits	Semester
<u>Global Agriculture Technology Foresight</u> 全球農業科技前瞻	Chih-Wei Tung	3	Fall
<u>Scientific Writing and Presentations</u> 科學寫作和簡報		3	Fall
<u>Seminar</u> 專題討論	Takeshi Itoh (Fall) Chih-Wei Tung (Spring)	1 / 1	Fall / Spring
<u>Research Training</u> 專題研究	Advisors	1 / 1	Fall / Spring
<u>Thesis (M. S.)</u> 碩士論文	Advisors	0	Spring (in second year)

Elective Course (DA+GB)			
Course Title	Instructor	Credits	Semester
<u>Field Internship</u> 校外實習	Program Director	2	Fall / Spring
<u>Bioinformatics</u> 生物資訊學	Takeshi Itoh	3	Fall
<u>Crop Modeling</u> 作物模式	Li-Yu D Liu	2	Fall

Elective Course (DA)			
Course Title	Instructor	Credits	Semester
<u>Control System for Smart Agriculture</u> 控制系統與智慧農業	Ping-Lang Yen Shih-Fang Chen Hsiao-Mei Wu	3	Fall
<u>Special Topics in Poultry Production</u> <u>Medicine and Products Processing</u> 家禽生產醫學與產品加工特論	Yi-Chen Chen Chung-Hsi Chou	2	Fall
<u>Waste Treatment Engineering</u> 廢棄物處理工程	Chu-Yang Chou	3	Fall
<u>Plant factory : Theory and Practice</u> 植物工廠：理論與實踐	Wei Fang	3	Spring
<u>Smart Technology Applied to</u> <u>Livestock Production</u> 智慧科技應用於動物生產	En-Chung Lin	3	Spring

Elective Course (GB)			
Course Title	Instructor	Credits	Semester
<u>Biotechnology Core Techniques :</u> <u>DNA, RNA and Protein</u> 生物技術核心實驗：DNA、RNA和 蛋白質	Yi-Yin Do Jen-Chih Chen Chun-Hua Hsu	4	Fall
<u>Genetics and Genomics</u> 遺傳學與基因體學	Chau-Ti Ting Chih-Wei Tung	3	Fall
<u>Application of advanced plant molecular biotechnology in crops</u> 進階植物分子生物技術在農作物上 的應用	Hsu-Liang Hsieh Chiu-Ping Cheng Chin-Mei Lee	3	Spring
<u>Crop Genomic Breeding</u> 作物基因體育種	Chih-Wei Tung	3	Spring
<u>Data Analysis Applications in Agricultural Sciences</u> 實驗科學的實用生物資訊學	Takeshi Itoh	2	Spring
<u>Practical Bioinformatics for Laboratory Scientists</u> 農業科學中的數據分析應用	Takeshi Itoh	2	Spring
<u>Problem-Solving Programming Method for Bioinformatics</u> 生物資訊問題導向程式設計方法	Takeshi Itoh	1	Spring