

## TIGP-BIODIV Program – Course Map

### Required Courses (12)

Population Genetics and Evolution (A) (3)

Ecology and Conservation (3)

Lab Rotation (1) x2

Seminar (1) x4



### Elective Courses (≥ 6)

Evolution and Genetic Diversity	Species Diversity	Ecosystem Biodiversity and Environmental Changes	General Interest
Molecular Evolution (A) (3)	Behavior Ecology (A) (3)	Marine Ecosystems (3)	Biostatistics (3)
Ecological and Evolutionary Genomics (A) (3)	Biodiversity (A) (3) Systematics (A) (3)	Conservation Biology (A) (3) Disease Ecology (A) (3)	Advanced Seminar (1) Writing and Presentation of Biological (A) (3)
Introduction to Next-Generation Sequencing (NGS) Data and Analysis (3)	Microbial Ecology and Diversity (3)	Biogeography (A) (3) Biological Modeling (3)	



**Minimum number of credits for Graduation:  
18 for those with an M.S. degree before enrolling  
30 for those with a B.S. degree before enrolling**

- The **educational objective** of the TIGP-BIODIV program is to cultivate Taiwanese and international scientists with the aim to promote innovation and quality of research in biodiversity.
- On successfully completing the program, students shall possess all five of the following **core competences**:
  1. To have the professional knowledge required for designing and conducting research in life sciences.
  2. To be able to apply modern techniques to solve diverse scientific questions in life sciences.
  3. To be able to analyze experimental data rigorously, draw appropriate conclusions and publish results in scientific journals.
  4. To have a proper attitude toward scientific research and to adhere to scientific ethical standards.
  5. To appreciate the beauty of life and to recognize the importance of life science to the survival of humanity and the sustainability of our planet.
  6. To equip with international academic vision and show the ability of international competitiveness on professional performance.