# Course Structure for Ph. D Program
# Ecology & Evolution GPE, Department of Life Science
# National Taiwan Normal University

| Adaptive to Class of | Required Credit(s) | Elective Credit(s) | Free Elective Credit(s) | Minimum Total Credits for Graduation |
|---|---|---|---|---|
| 115 | 14.0 | 10.0 | 0.0 | 24.0 |

Note: The first alphabet "E" on the course name refers to the course in English as a medium of instruction

## I. Required Courses: 0.0 credit is required

## II. Elective Courses: 0.0 credit is required

## III. Courses Offered to Students in Different Divisions

Required Course, 14.0 credits are required

| Course Code | Course Name | Credit(s) | Credit Unit | | Note |
|---|---|---|---|---|---|
| | | | Lecture Hour | Lab/Practice Hour | |
| BIC0174 | 1 E Advanced Ecology | 3.0 | 3.0 | 0.0 | |
| BIC8024 | 2 E Seminar on Ecology & Evolution | 2.0 | 2.0 | 0.0 | This course must be retaken with a passing score for 4 times |
| DIC8042 | 3 E Population Genetics and Evolution A | 3.0 | 3.0 | 0.0 | |

Elective Course: 10.0 credits are required

| Course Code | Course Name | Credit(s) | Credit Unit | | Note |
|---|---|---|---|---|---|
| | | | Lecture Hour | Lab/Practice Hour | |
| BIC8026 | 1 E Linear and Logistic Regression Models | 3.0 | 3.0 | 0.0 | |
| BIC8025 | 2 E Introduction to Statistical Analysis | 3.0 | 3.0 | 0.0 | |
| BIC8022 | 3 E Behavioral Ecology | 3.0 | 3.0 | 0.0 | |
| DIC8001 | 4 E Ecology and Conservation | 3.0 | 3.0 | 0.0 | |
| DIC8035 | 5 E Biodiversity A | 3.0 | 3.0 | 0.0 | |
| DID0011 | 6 E Ecology Masterclass at Taiwan | 3.0 | 3.0 | 0.0 | |
| DIC8029 | 7 E Biological Modeling | 3.0 | 3.0 | 0.0 | |
| DIC8034 | 8 E Systematics A | 3.0 | 3.0 | 0.0 | |
| DIC8046 | 9 E Biogeography A | 3.0 | 3.0 | 0.0 | |
| DIC8047 | 10 E Microbial Ecology and Diversity | 3.0 | 3.0 | 0.0 | |
| DID0001 | 11 E Marine Ecosystems | 3.0 | 3.0 | 0.0 | |
| DID0003 | 12 E Advanced Microbiology | 3.0 | 3.0 | 0.0 | |
| DID0004 | 13 E Disease Ecology A | 3.0 | 3.0 | 0.0 | |
| DID0005 | 14 E Molecular Phylogeny | 3.0 | 3.0 | 0.0 | |
| DID0006 | 15 E Ecosystem Ecology | 3.0 | 3.0 | 0.0 | |
| DID0008 | 16 E Estuary Ecology | 3.0 | 3.0 | 0.0 | |
| DID0009 | 17 E Advanced Bioinformatics | 3.0 | 3.0 | 0.0 | |
| DID0016 | 18 E Ecological and Evolutionary Genomics | 3.0 | 3.0 | 0.0 | |
| DID0013 | 19 E Diversity and Evolution of Eukaryotes | 3.0 | 3.0 | 0.0 | |
| DID0012 | 20 E Molecular Evolution A | 3.0 | 3.0 | 0.0 | |
| DID0014 | 21 E Geospatial Information Technology and Analysis | 3.0 | 3.0 | 0.0 | |
| BIC0061 | 22 E Principles and Methods of Plant Taxonomy | 3.0 | 3.0 | 0.0 | |

## IV. Free Elective Credits: 0.0 credit is required