

# DOCTOR OF PHILOSOPHY PROGRAM IN BIOLOGICAL SCIENCE

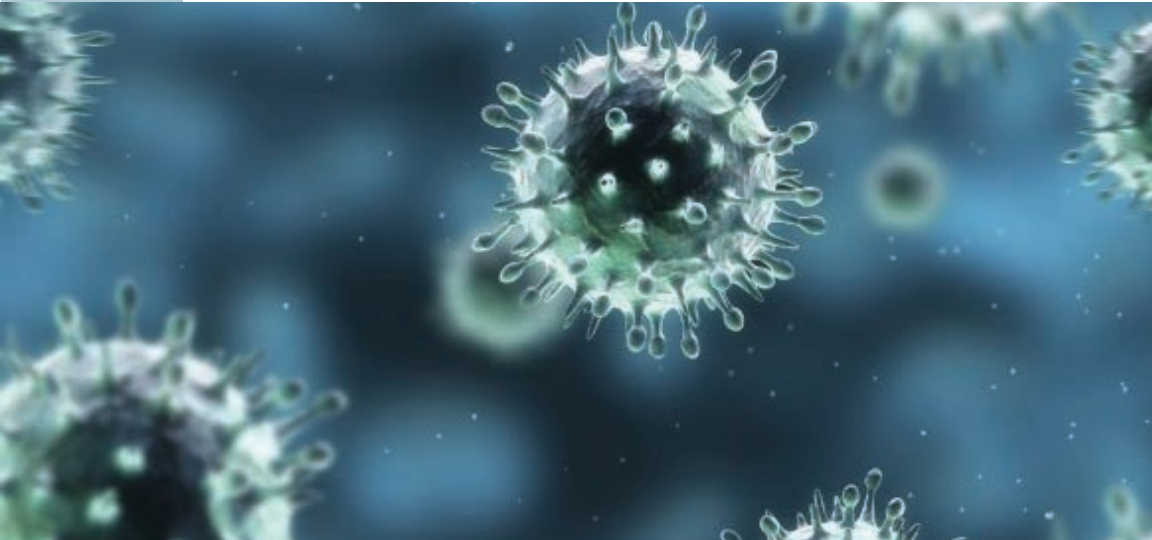
■ FACULTY OF SCIENCE

## DOCTOR OF PHILOSOPHY PROGRAM IN BIOLOGICAL SCIENCE

Biological science studies all living organisms, their interactions, related factors, and processes intertwined in sustaining all lives in their paths of survival, growth, and regeneration. Inquiries into all lives lay bare human understanding and our interdependence with all co-existing on earth. The department conducts research studies to discover new knowledge appropriate for human sustainability on balance with natural resource sharing mechanisms for mutual benefits.

The Faculty conduct research in a wide array of life-science sub-disciplines, especially focused, as experts in neuro-toxicology, biological diversity, genetics, ecology, and environments.

While many Ph.D. graduates seek a traditional academic career, an increasing number find vocations in government agencies and a wide range of private enterprises.



## Objectives

Upon graduation, the following characteristics are expected:

- Knowledgeable, competent with in-depth understanding in biological science.
- Empowered as the leader and principal driver in biological science research.
- Skillful in research and development in discovering new knowledge, leading to proper solutions locally, nationally, and internationally.
- Professionally ethical, positive in attitudes, and acceptable as a role model in the society.

## Admission

In accordance with the Graduate School Rules and Regulations. The program committee reserves the rights to require more qualifications as deemed appropriate.

## Medium of Instruction

Thai and English



## Research Focus

### Plant Biology

- Plant Morphology, Plant Physiology, Plant Anatomy (Rice/Papaya)
- Plant Diversity Zingiberaceae and other species

### Genetic and Molecular Biology

- Plant Molecular Phylogenetic and Evolution
  - Genetic Markers of Nymphaeaceae
  - Genetic of Drosophila Melanogaster
  - Plant Mutation
  - Cytogenetic of Zingiberaceae and other species
  - Microsatellite Markers of Fruit Fly Parasitoids

### Ecology and Environmental Biology

- Ornithology
  - Bird Diversity
  - Breeding Ecology of Edible Nesting Swiftlets and others

### Animal Biology

- Entomology
  - Diversity and Taxonomy of Hymenopterans and Fireflies
  - Biology of Fireflies
  - Bee Biology and Bee Products
  - Insect Pollinators and Floral Structure
  - Diversity of Cyprinidae
  - Human and Animal Parasites
  - Biology and Taxonomy of Scorpions
  - Natural Toxins Affecting Nervous System
  - Taxonomy of Earth worms

## Requirement for Graduation

In accordance with Graduate School Rules and Regulations.