

TROPICAL ENVIRONMENTAL BIOLOGY

KPT/JPT (R/421/6/0027) 10/20 - MQA/SWA0129

Tropical environmental biology is the study of the behaviour of living systems with a strong focus on important ecological and environmental topics such as climate change, biodiversity and conservation.



Over half the species of animals and plants in the world occur in the tropics. You will explore the terrestrial and aquatic tropical ecosystems and their vast biodiversity. The conservation and management of tropical forests are of global importance particularly with respect to climate change, nutrient cycling, conservation of endangered species and potential for discoveries of new drugs and other bioactive compounds.

Monash Malaysia offers specialist training in tropical environmental biology with a particular emphasis on techniques and field skills relevant to the study, conservation and management of tropical environments. You will learn a range of topics including environmental science, tropical ecology, terrestrial and aquatic tropical biology, tropical environmental management and conservation of bioresources.

Monash is one of the few world class universities with a tropical campus and the location of the Malaysian Campus is ideal for the study of tropical environmental biology. Through field trips, lectures and research projects, you will gain an appreciation for, and understanding of, tropical ecosystems in the region including coral reefs, tropical rainforests, mangrove swamps, peat swamp forests, rivers and lakes.

Tropical environmental biology can lead to an exciting career in areas such as conservation biology, aquatic biology, environmental management and consultancies, biotechnology, field and laboratory research in government, industry or universities, and environmental NGOs.

Why study at Monash University?

- Cutting-edge curriculum and excellent teaching led by renowned scientists active in research
- Monash is in the top one per cent of universities worldwide
- Our degree includes opportunities to do an internship and participate in international exchange study programs.

CAREER OPPORTUNITIES

You will offer an employer excellent technical skills, a capacity for critical thinking, attention to detail, and interest in scientific theory and issues as they relate to society.

- Environmental Scientist
- Environmental Consultant
- Environmental, Health and Safety Officer
- Ecotourism Operator
- Government Advisor (Environmental Policy and Management)
- Instrument Specialist
- Laboratory Research
- Land Use Planner
- Landcare Project Manager
- Marine Biologist
- Museum Scientist
- Natural Resource Manager
- Occupational Health and Safety Officer
- Patent Officer
- Risk-Management Consultant
- Research Scientist
- Science Journalist
- Science Teacher
- University Lecturer
- Waste and Resources Management Consultant
- Water Quality and Management Consultant

FURTHER INFORMATION

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COURSE STRUCTURE

YEAR 1

CHM1051	Chemistry 1 advanced
CHM1052	Chemistry 2 advanced
BIO1011	Blueprints for Life
ENV1800	Environmental science: A Southeast Asian perspective
SCI1020	Introduction to statistical reasoning
One level 1 science unit	
Two elective units	

YEAR 2

BIO2810	Introduction to ecological applications
ENV2726	Ecosystems and bioresources
STA2216	Data analysis for science
SCI2010	Scientific practice and communication
One level 2 or 3 science unit	
Three elective units	

YEAR 3

BIO3800	Tropical environmental management
BIO3810	Tropical aquatic biology
BIO3820	Tropical terrestrial biology
One level 2 or 3 science unit	
One level 3 science unit	
Three elective units	

Disclaimer: Please note that not all degrees, courses, majors and/or units ("Courses") offered at the Malaysia campus are offered at any of the other Monash University campuses. You should always check with the relevant School advisers when planning Courses and making study plans. The inclusion in a publication of details of a Course and the acceptance into a course in no way creates an obligation on the other part of the University to teach it in any given year, or to teach it in a manner described. The University reserves the right to cancel, discontinue or vary Courses at any time without notice. An intercampus exchange or transfer may result in a longer time for degree completion due to variations of Course offering and the semester of the Course offering at each campus. Exchange and transfer arrangements to other Monash University campuses are subject to eligibility criteria, approval and may be subject to quotas. January 2020.

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