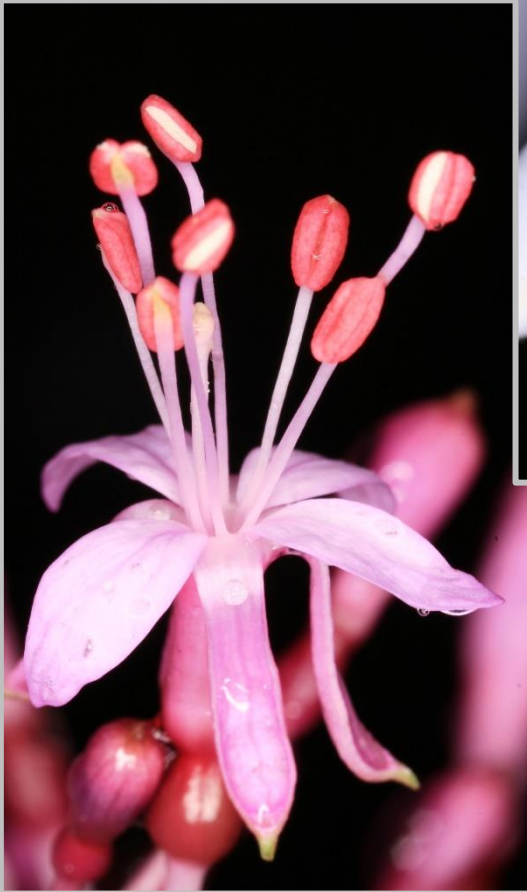


Ecology & Biodiversity

School of Biological Sciences

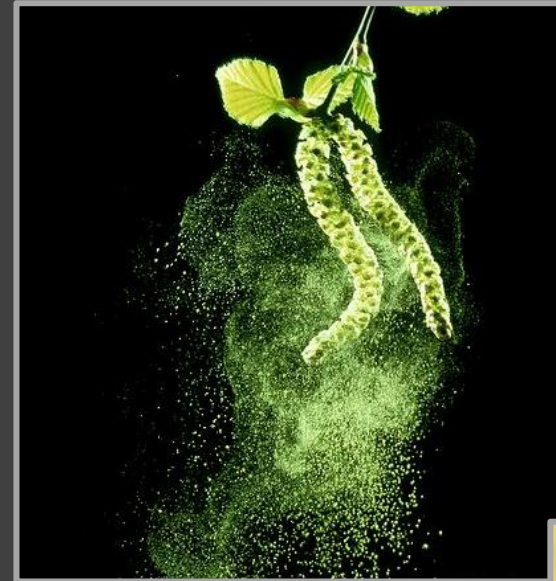


Ecology & Biodiversity (Intensive, Major & Minor)

4-year curriculum



- Diversity of Life
- Interactions between species & their environment
- Regional & global threats on biodiversity





Why choose this major?

The world is in trouble...

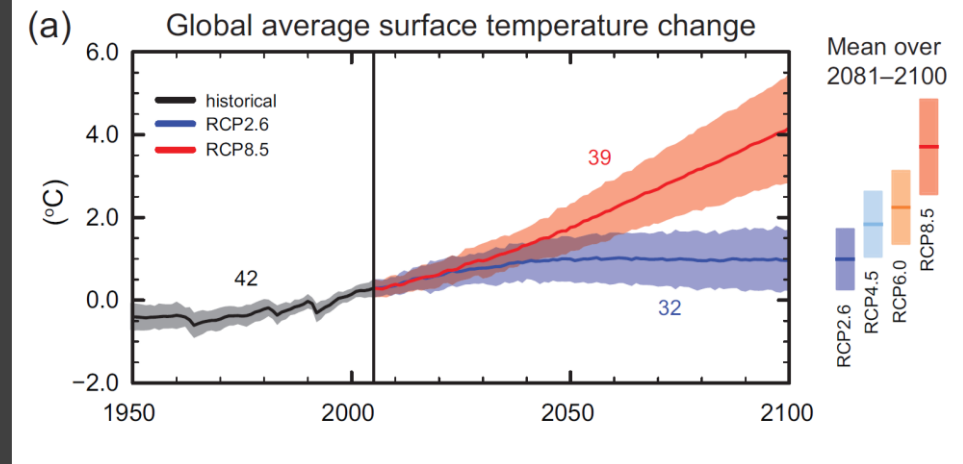
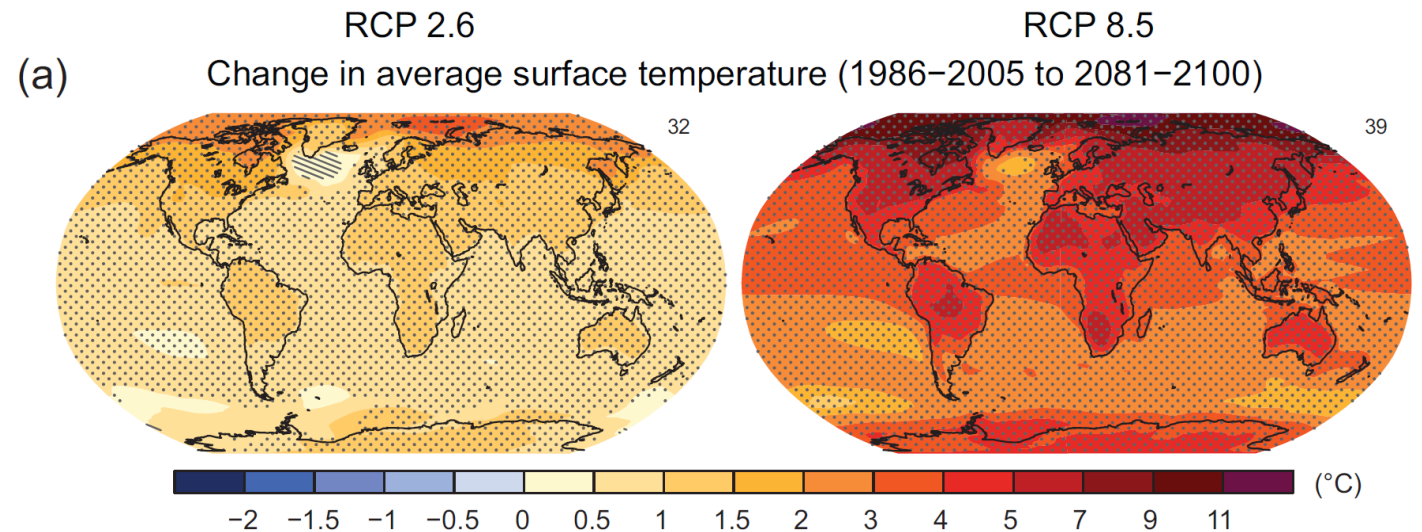


We now live in the Anthropocene



Why choose this major?

The world is in trouble...





Why choose this major?

The world is in trouble...





Why choose this major?

The world is in trouble...

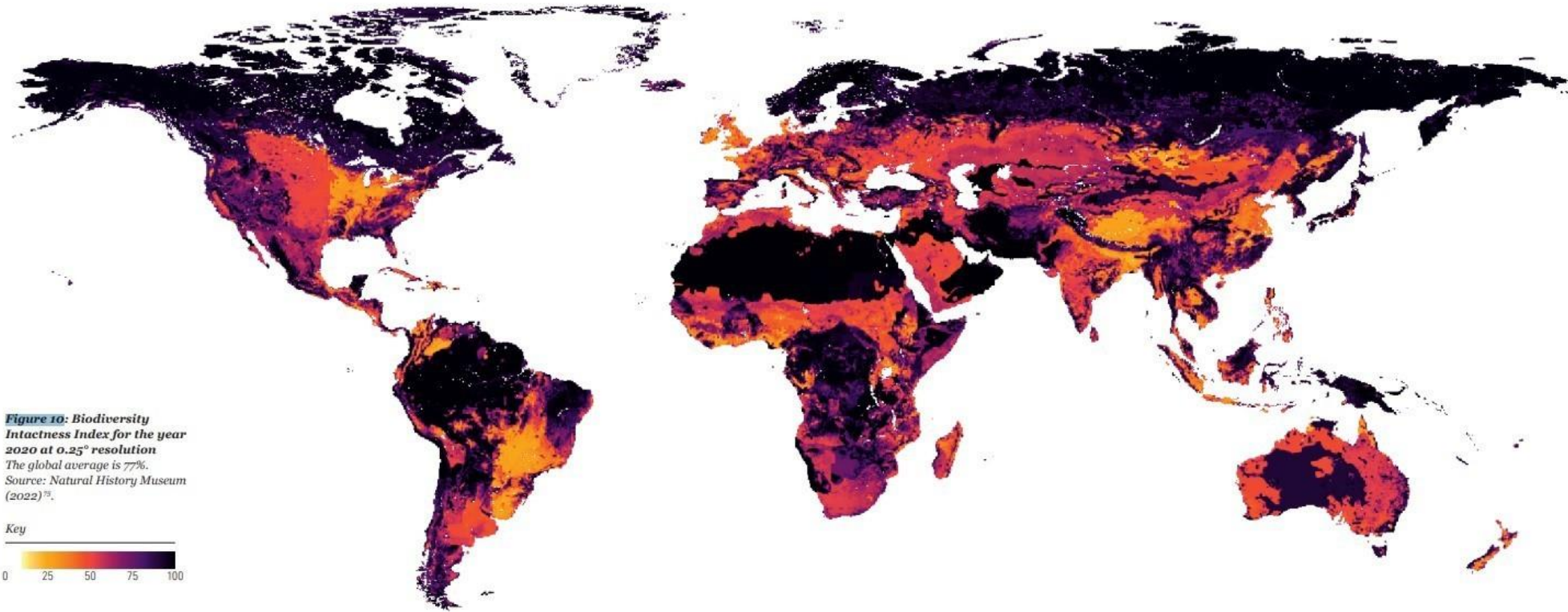
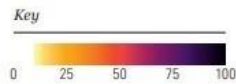


Figure 10: Biodiversity Intactness Index for the year 2020 at 0.25° resolution
The global average is 77%.
Source: Natural History Museum (2022)⁷⁹.





Why choose this major?

The world is in trouble...

In the Ecology & Biodiversity Major...

We train scientists who create solutions!

Choose a degree that makes a difference!



Why choose this major?

Interest in Science

Curious about biology, nature & conservation

Enthusiastic about exploring the natural world

- lots of opportunities to get out there!**

Love fieldwork and/or laboratory work

- Can also do data intensive projects**

Concerned about global environmental issues and protection of nature – and solutions.



What will you learn?

Broad knowledge in ecology, evolution and conservation

Skills to work independently & in team

Develop analytical and critical skills

Communication skills

Understand local & global environmental issues

Innovation & technology = solutions

2nd Year 1st Year

BIOL1110 From molecules to cells	BIOL1309 Evolutionary diversity	SCNC1111 Scientific method and reasoning	SCNC1112 Fundamentals of modern science	CCC
BIOL2102 Biostatistics	BIOL2103 Biological sciences laboratory course	BIOL2306 Ecology and evolution	ENVS2002 Environmental data analysis	CCC

29 core and elective courses

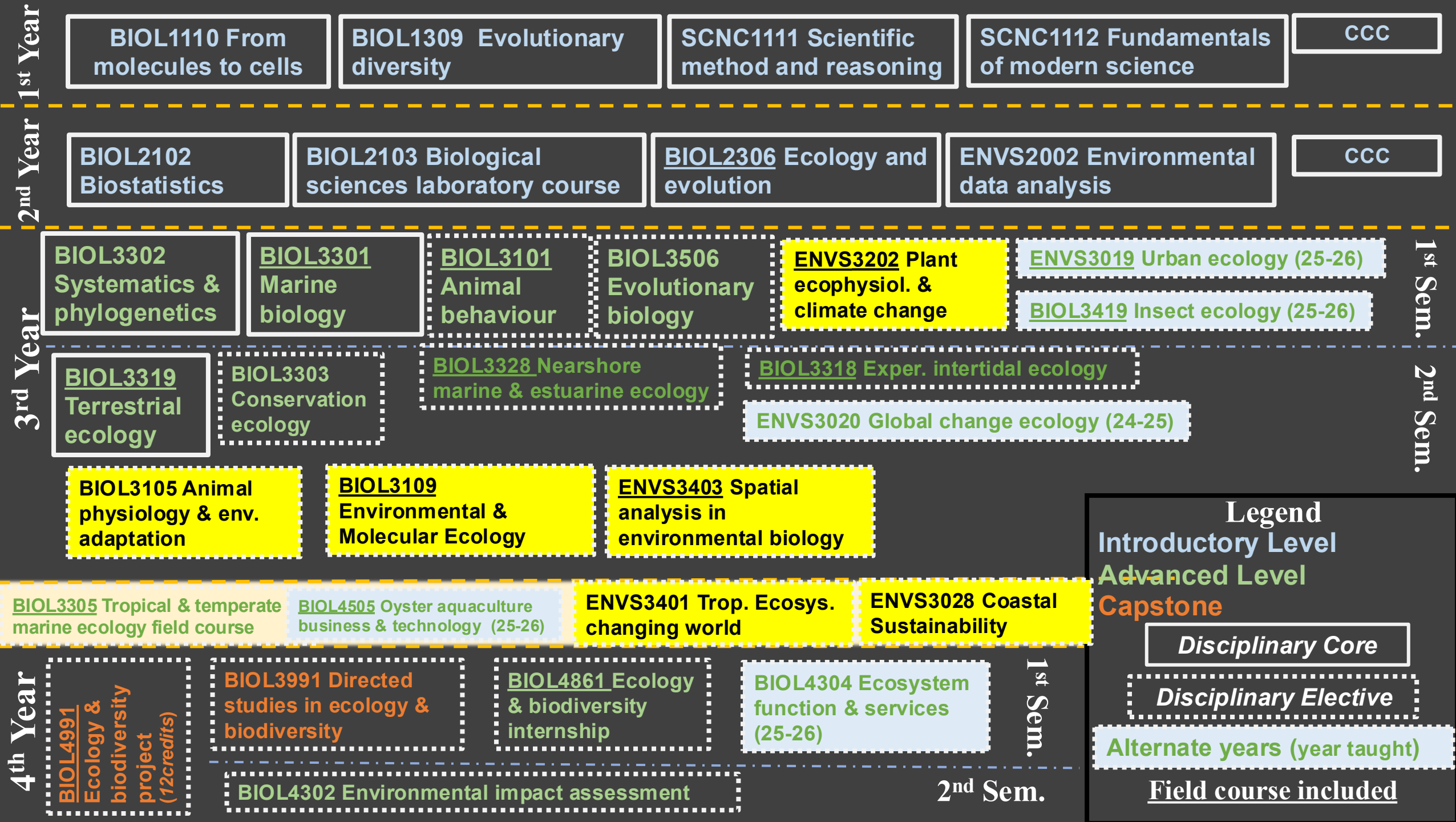
Small classes (12-30 students)

65% of courses with field components

4th Year

BIOL4991 Ecology & biodiversity project (12 credits)	BIOL3991 Directed studies in ecology & biodiversity	BIOL4861 Ecology & biodiversity internship	BIOL4304 Ecosystem function & services (23-24)	1 st Sem. 2 nd Sem.	Advanced Level Capstone
	BIOL4302 Environmental impact assessment				Disciplinary Core
					Disciplinary Elective
					Alternate years (year taught)
					Field course included

6 new electives added from 2024/25!



Intensive Major in Ecology & Biodiversity

Accredited degree by the



Minor in Marine Biology

(36 credits)



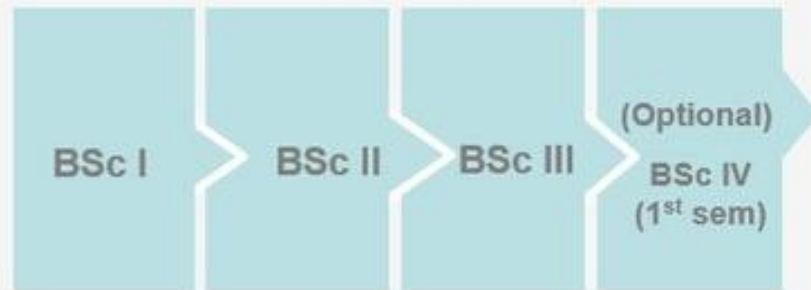
Articulation pathway

HKU BSc + UoMelb DVM

(Articulation pathway to the Doctor of Veterinary Medicine (DVM)
at the University of Melbourne)



BSc (HKU)



Bachelor of Science at HKU



New articulation pathway for pursuing
a career in veterinary

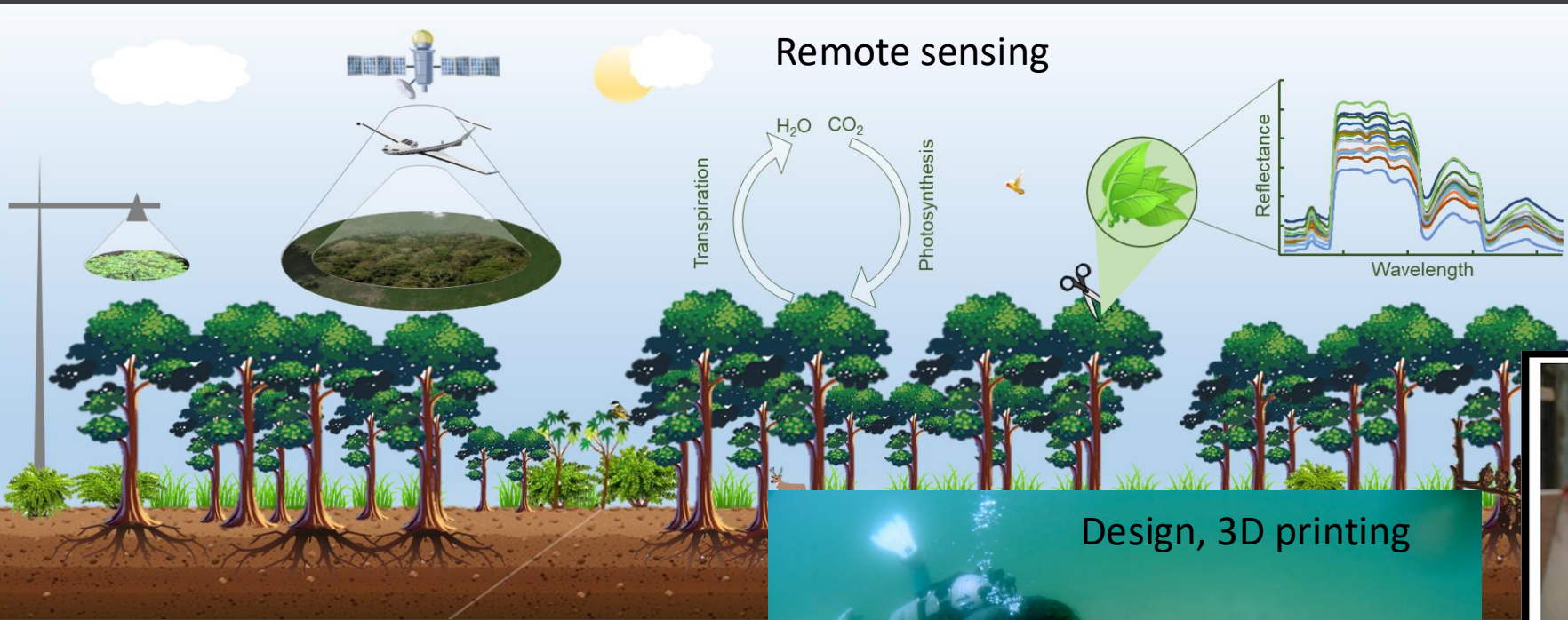


DVM (UoMelb)

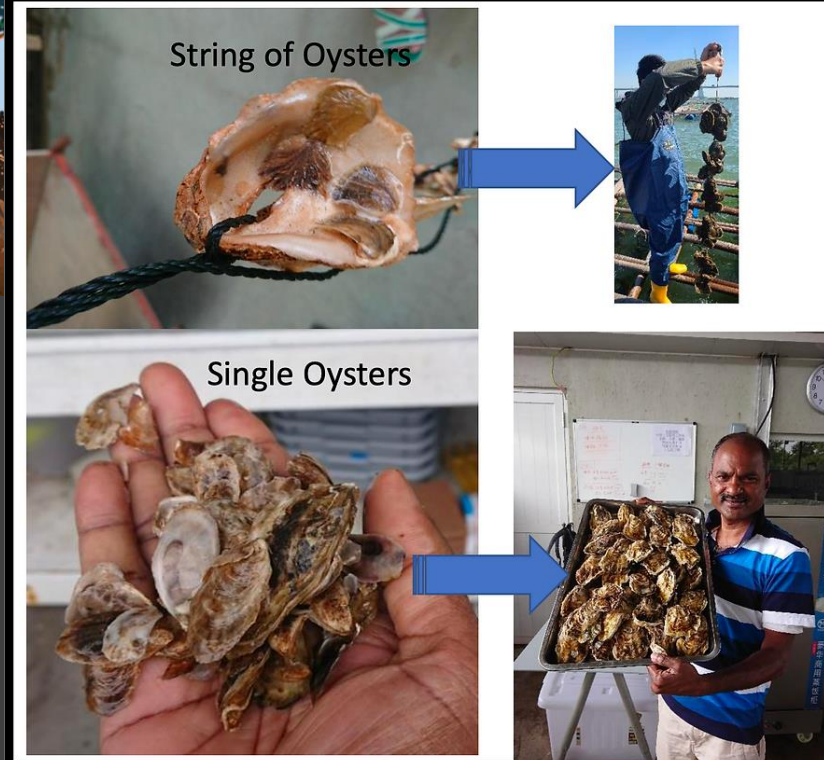
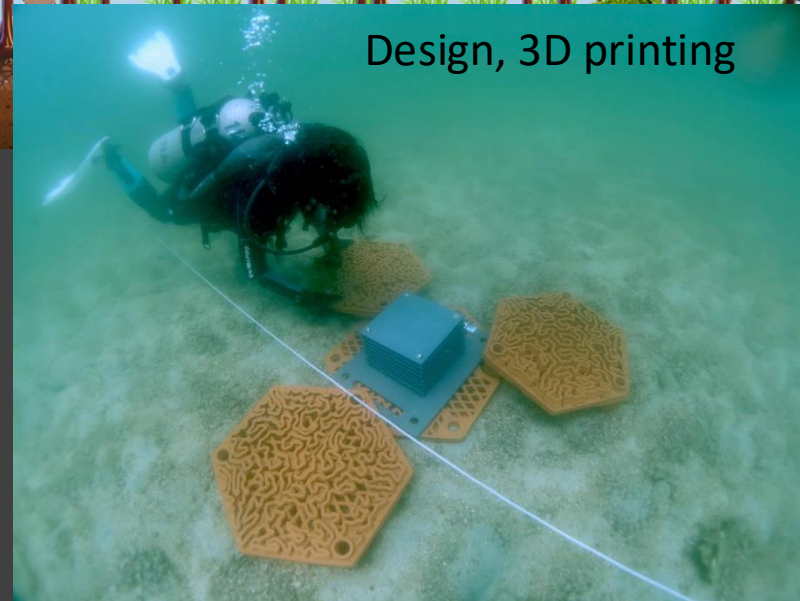
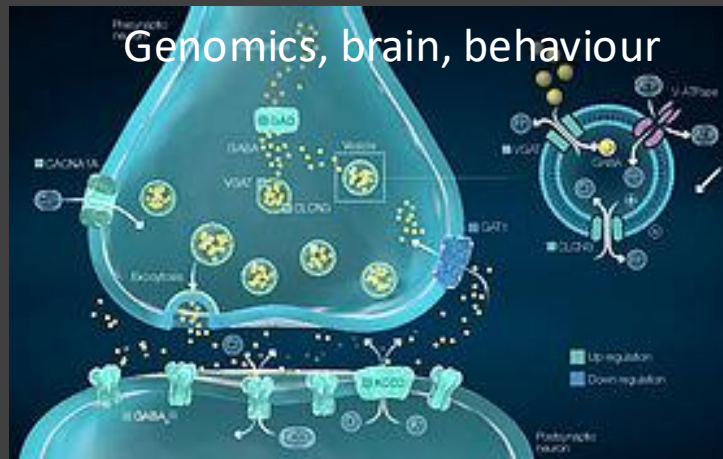


A minimum of 7 years

Teaching with technology



Aquaculture technology,
enhanced production,
business skills



Teaching with technology



Machine Learning to
analyze behaviour

A diverse and international team



Pro
Evo



e
gy

15 World-class researchers

> 1000 publications in ecology & conservation



Prof. Benoit Guénard
Insect ecology



Prof. Matthieu Leray
Microbial ecology



Prof. Bayden Russell
Marine ecology



Prof. Rajan Vengatesen
Ocean acidification

A diverse and international team



Prof. Juha Merila
Evolution



Prof. Gray Williams
Intertidal Ecology



Prof. David Baker
Coral reef ecology



Prof. Tim Bonebrake
Global change ecology



Prof. Benoit Guénard
Insect ecology



Prof. Matthieu Leray
Microbial ecology



Prof. Bayden Russell
Marine ecology



Prof. Rajan Vengatesen
Ocean acidification

A diverse and international team



Prof. Louise Ashton
Ecosystem function



Prof. J. D. Gaitán-Espitia
Ecophysiology



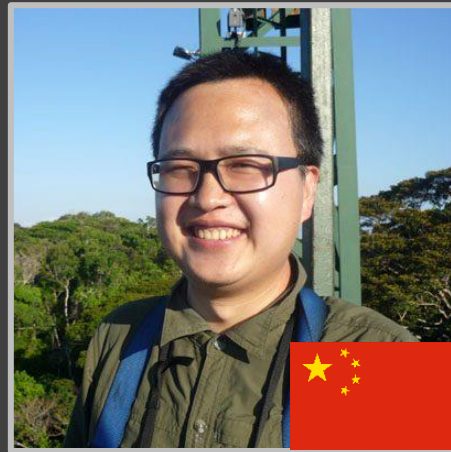
Prof. Celia Schunter
Neurobiology and
Marine Biology



Prof. Si-Chong Chen
Plant and seed
ecology



Prof. Simon Sin
Evolutionary genomics



Prof. Jin Wu
Plant remote sensing



Dr. Billy Hau
Ecological restoration

BIOL2306 Ecology & Evolution

- Introduction to the interaction between organisms and their environment and the central role of evolution
- Understand and explain the significance of nature using scientific methods





BIOL2306 Ecology & Evolution

- 5-day field course!
- Study both marine and terrestrial ecosystems & organisms of Hong Kong
- Familiarize with scientific methods to study organisms and their environments



Hands on learning

15 courses with field components offered

Tropical & temperate ecology

Terrestrial ecology

Marine & coastal ecology



Overseas field courses

- Borneo
- Thailand
- Malaysia
- Taiwan
- South Africa
- China



Make an impact!

Many opportunities to engage into research as an undergraduate among research laboratories!

Swire Institute of Marine Science

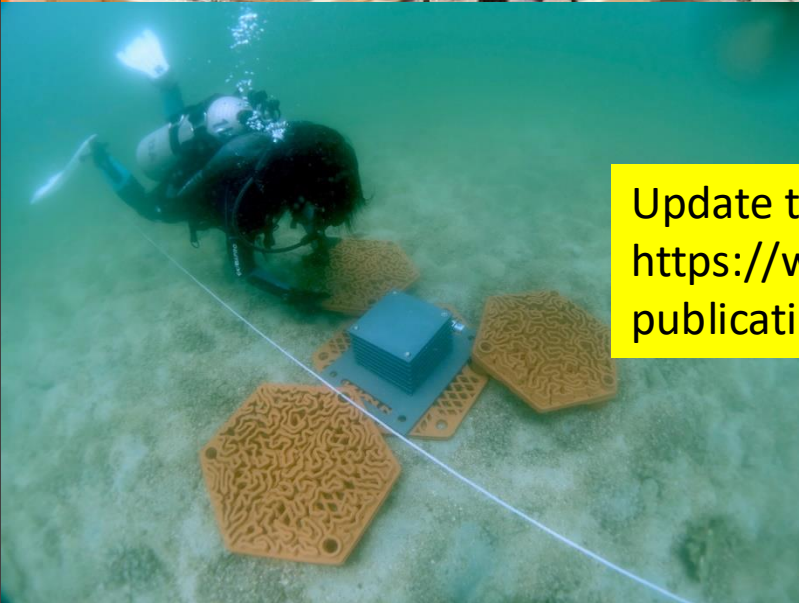


Kadoorie Centre



Make an impact!

Engage with industry, start-ups, commercial opportunities.



Update to include
<https://www.scifac.hku.hk/public-engagement/faculty-publication/2025/fresh-perspectives>

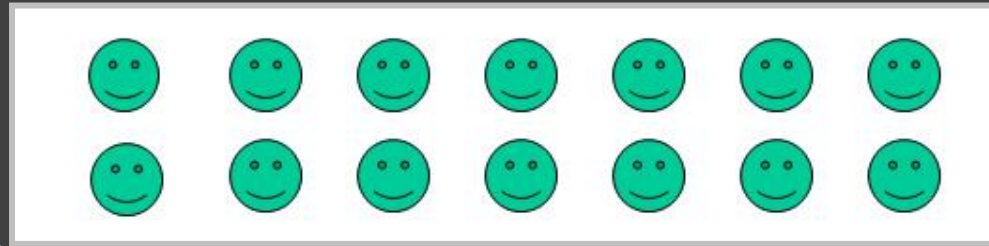


Building your future career



100% employment after 6 months!

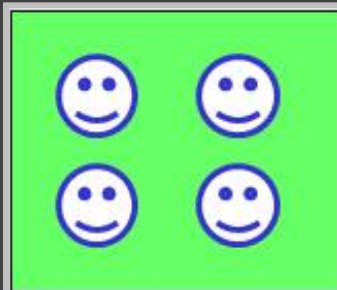
E&B students



Graduates



Further studies:
MPhil, PhD, MSc,
MLA...etc.



NGOs, Govt.,
private
sector



Education



Start-ups &
environmental
business



Join us, make a difference!

