

1. Select Visitor from available wireless networks. Launch a web browser and access any website (On some devices this is done automatically). Your web browser will redirect to the Visitor login screen.

2. Enter the below username and password:

Username: **bachelorofscience**

Password: **nc@A78**

3. Click Connect/Ok.





Getting Started Sessions

Room G07,
Sidney Myer Asia Centre



Schedule



Getting Started Session Times	Carrillo Gantner Theatre (B02)	Room G07
12:30pm - 1:00pm	Maths and Stats	
1:05pm - 1:35pm	Engineering and Information Systems	Earth Sciences
1:40pm - 2:10pm	Biology	Physics
2:15pm - 2:45pm	Chemistry	Geography

School of Geography, Earth & Atmospheric Sciences

Dr Anne-Marie Tosolini
First Year Coordinator



THE UNIVERSITY OF
MELBOURNE



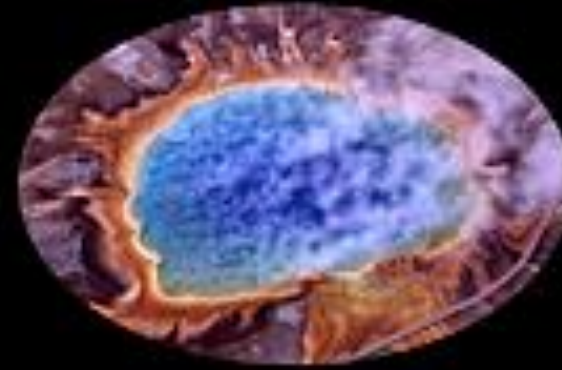


Geobiology
/Palaeontology

Earth's Environments



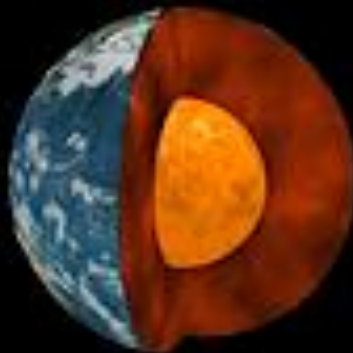
Geology



Geochemistry



Natural
Hazards



Geophysics



Planetary
Geology

What is Earth Science?

Geoscience:

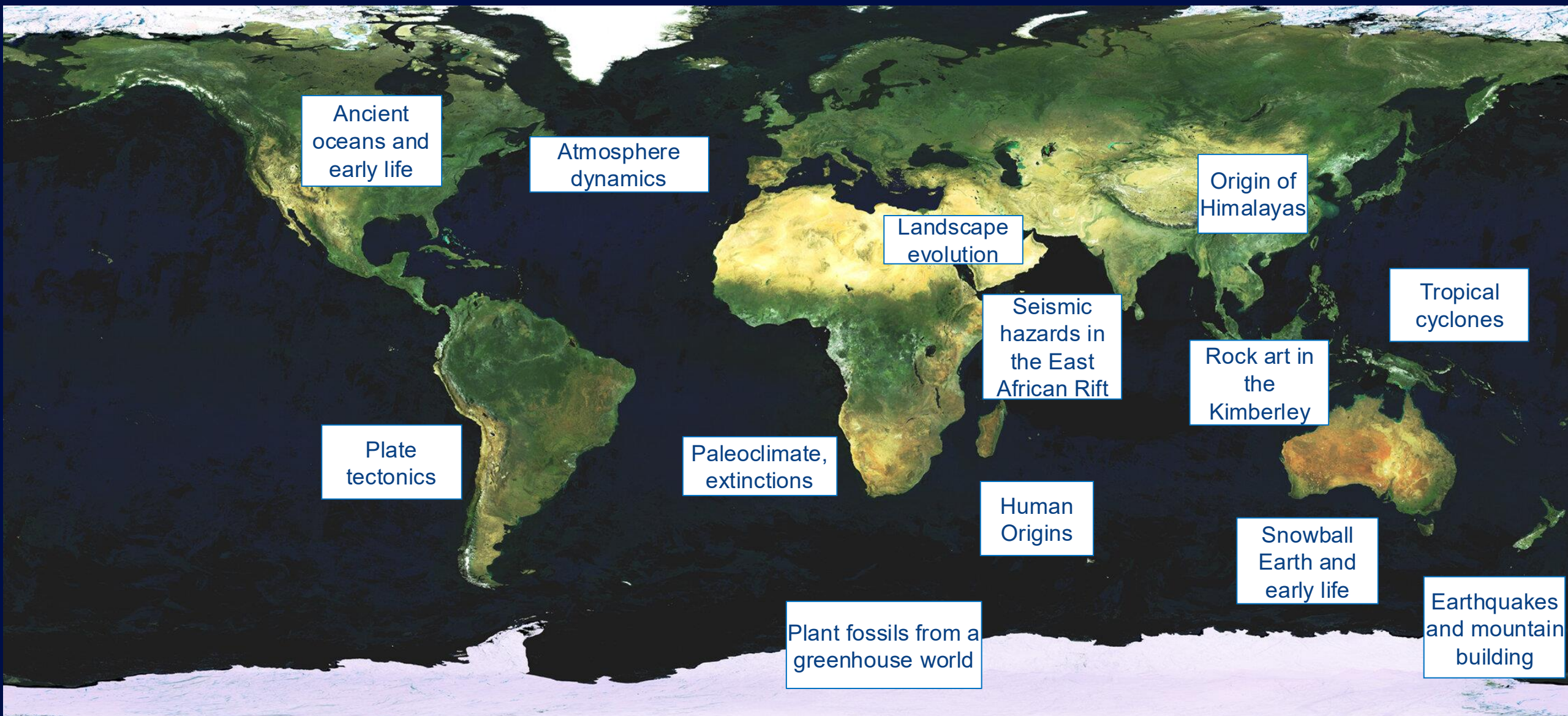
The study of Earth's history and physical structure, environments & climates, and the processes that act on the Earth to shape it through time.

What we study

- How Earth processes work
- How minerals and rocks form
- Formation of continents & oceans
- Natural hazards
- Origin and history of life on Earth
- Landscape evolution
- Earth's environments
- Natural resources, energy, water
- Earth's past climates
- Planetary geology



Earth or GEO Sciences



Our lecturers and students are conducting research in more than 100 countries around the world

School of Geography, Earth & Atmospheric Sciences

sgeas@unimelb.edu.au



Dr. Anne-Marie Tosolini
a.tosolini@unimelb.edu.au

What's in First Year Geoscience?

Semester 2

ERTH10002
Understanding
Planet Earth



Semester 1

EVSC10001
The Global
Environment



2nd Year

There are no prerequisites

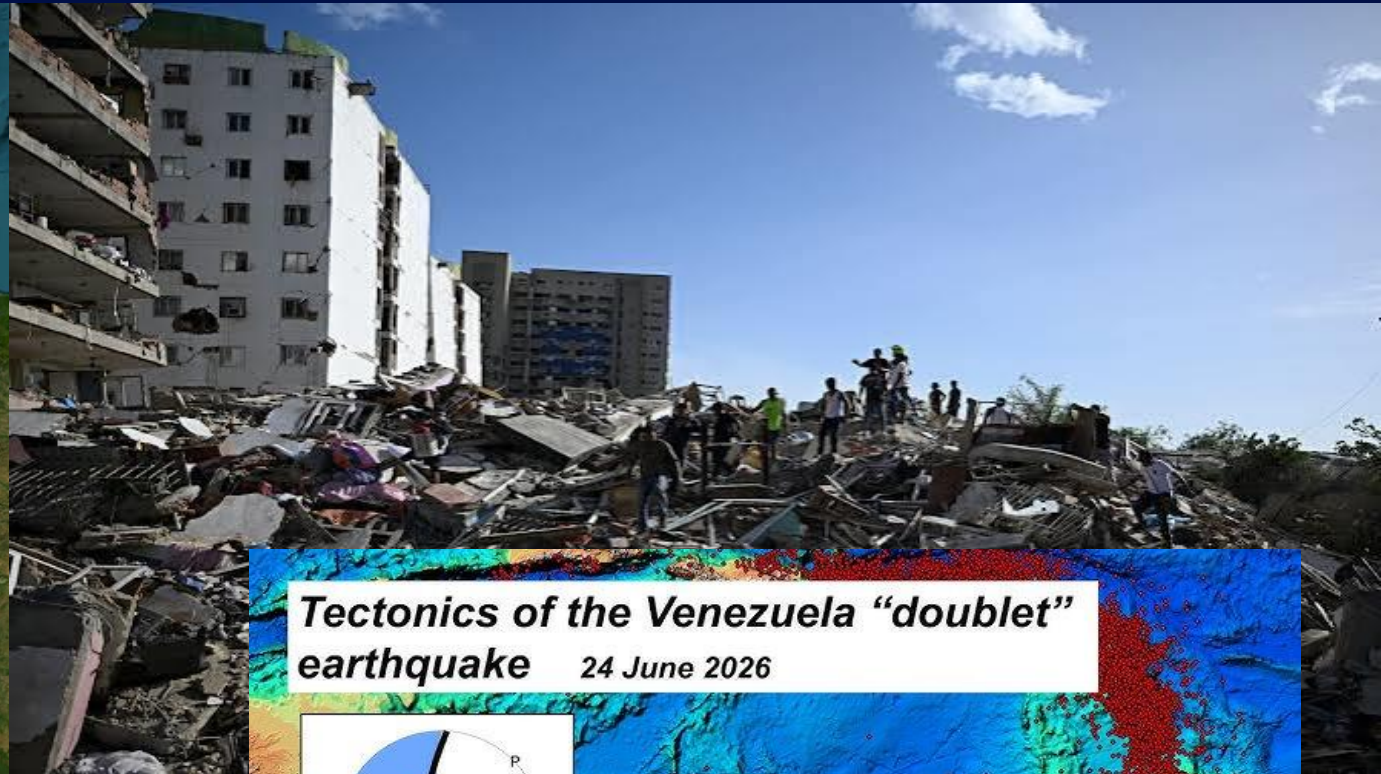
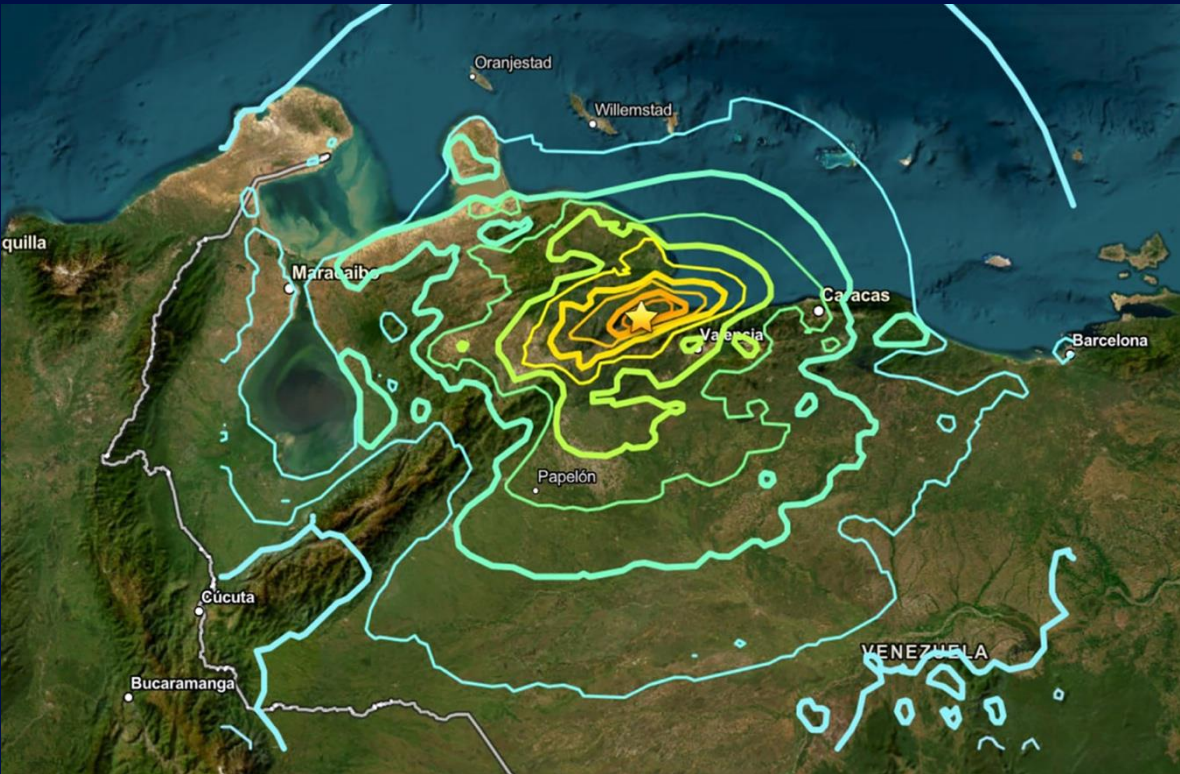


ERTH10002 Understanding Planet Earth

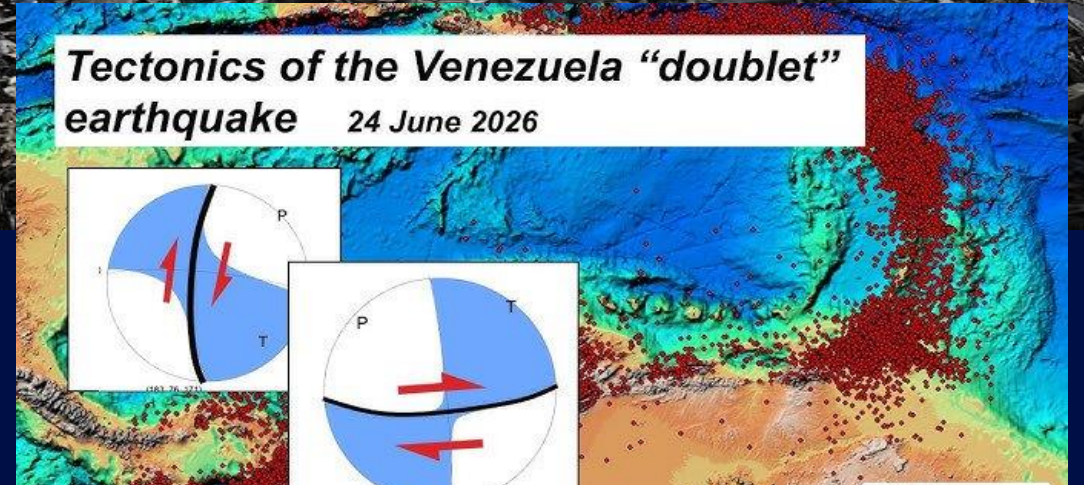
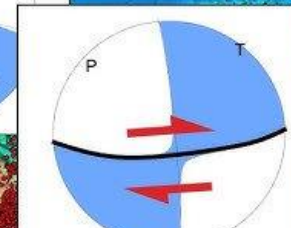
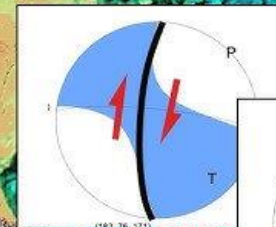
Geoscience Major



7.5 magnitude Earthquake hit Venezuela June, 2026



Tectonics of the Venezuela “doublet” earthquake 24 June 2026



An aerial photograph of a powerful ocean wave crashing over a dark, rocky reef. The water is a deep, dark blue, and the white foam of the breaking wave is prominent. The surrounding ocean is a lighter, choppy blue.

THE WAVE BLOWN AROUND THE WORLD

Science



ERTH10002 UPE

Understanding Planet Earth

Semester 2, 2026

Web resource: CANVAS LMS

Coordinator: Dr Anne-Marie Tosolini

Lecturers: Dr Hayden Dalton
Dr Saini Samim

Contact: 24 lectures (2 x 1hr / week)
11 practicals (3 hrs / week)



Lectures: Cuming Theatre, Chemistry Building

2 x 1 hour per week

- Monday 9.00 am – 10.00 am
- Thursday 10.00 am – 11.00 am

Practicals: Hills Lab, 210-211, Level 2, McCoy

1 x 3 hour per week

- Practical classes are compulsory - start week 1!
- Practical handouts can be downloaded from the LMS

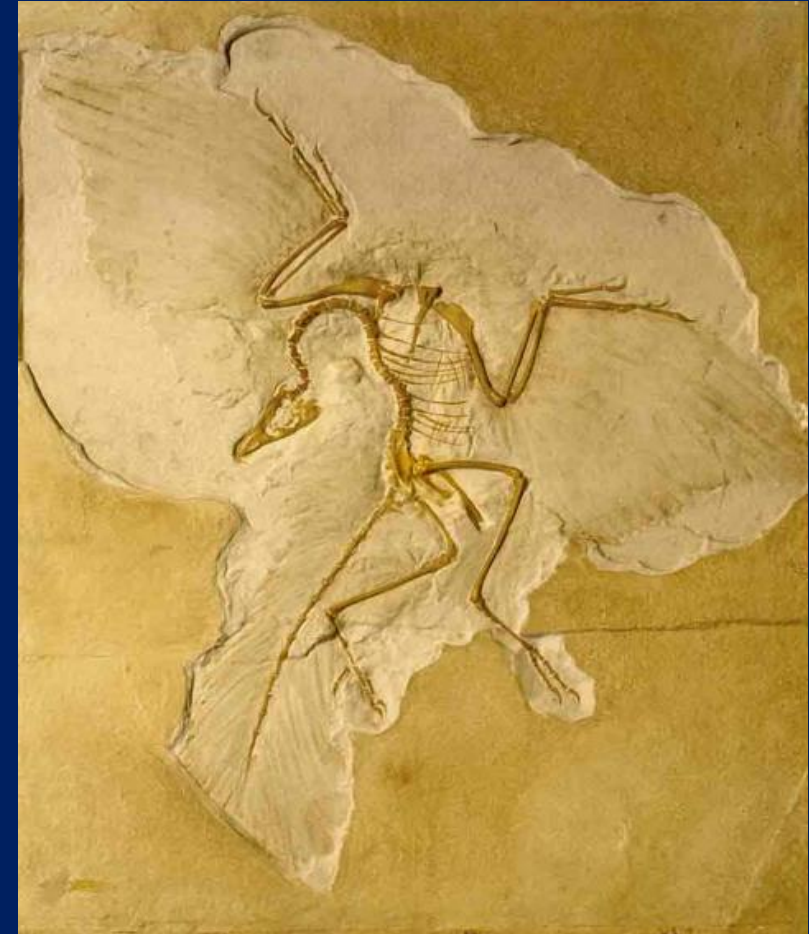
In person, choose from:

- Mon 2.00 pm – 5.00 pm
- Thurs 1.00 pm – 4.00 pm



ERTH10002

Understanding Planet Earth



Check out LMS for more info!

Field trips!

Mid-Semester Break:
3 day trip

Only First Year Science
with a fieldtrip!!

Phillip Island & Gippsland:
30 Sept – 2 Oct, 2026



Future pathways in Geoscience

SUMMER

Geology of SE
Australia

SEMESTER 1

Earth's Structure

Environmental
Geoscience

WINTER

Earth Surface
Processes

Field Geology

SEMESTER 2

Building Earth

Dangerous Earth

Past Climates

Geobiology

Applied Geoscience

2nd YEAR

3rd YEAR

Tectonics &
Geophysics

Sedimentary Geology
& Hydrogeology

Geochemistry

Earth Surface Processes- Buchan



Field Geology- Flinders Ranges

Careers in Geoscience

- Environmental Consulting
- Water & Mineral Resources
- Infrastructure Projects
- Natural Hazards
- Energy Transition Projects
- Government e.g. climate change, water, land. policy
- Planetary Exploration



Tips

- Join the Earth Science Students Society (ESSS)
- Join the Geological Society of Australia, Victoria (GSAV)
- Chat to people in class
- Ask questions! Attend lectures!
- If you want to learn more, please come chat to any of the geoscience lecturers or demonstrators



Schedule



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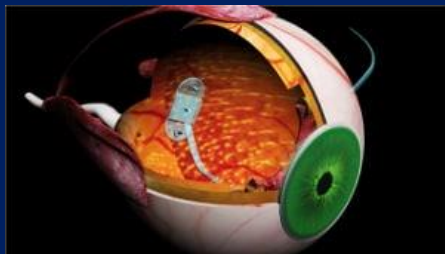


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MELBOURNE

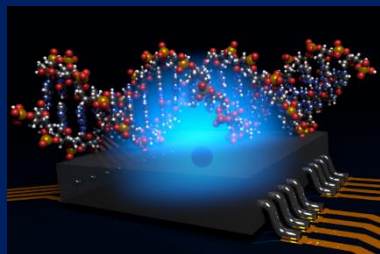
I heard you were taking Physics...

Daniel Pyke
First Year Coordinator





Bionic Eye



nanoMRI



Sky Hopper



Quantum Computing



FreO2



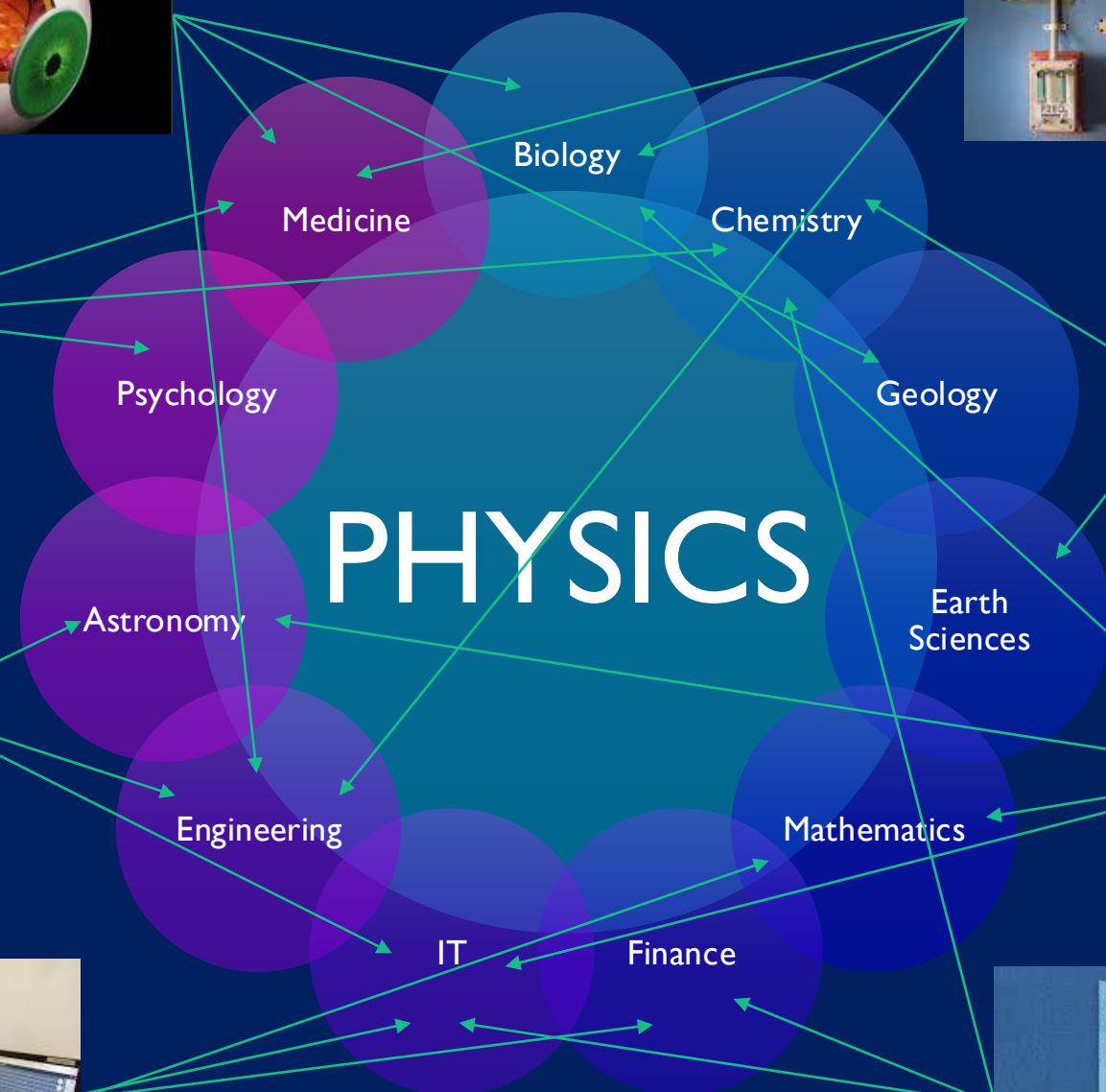
Climate Change, Energy



Big Data



Forgery Protection



5 Top Tips

Attendance

Assessment

Communication

Ask for Help

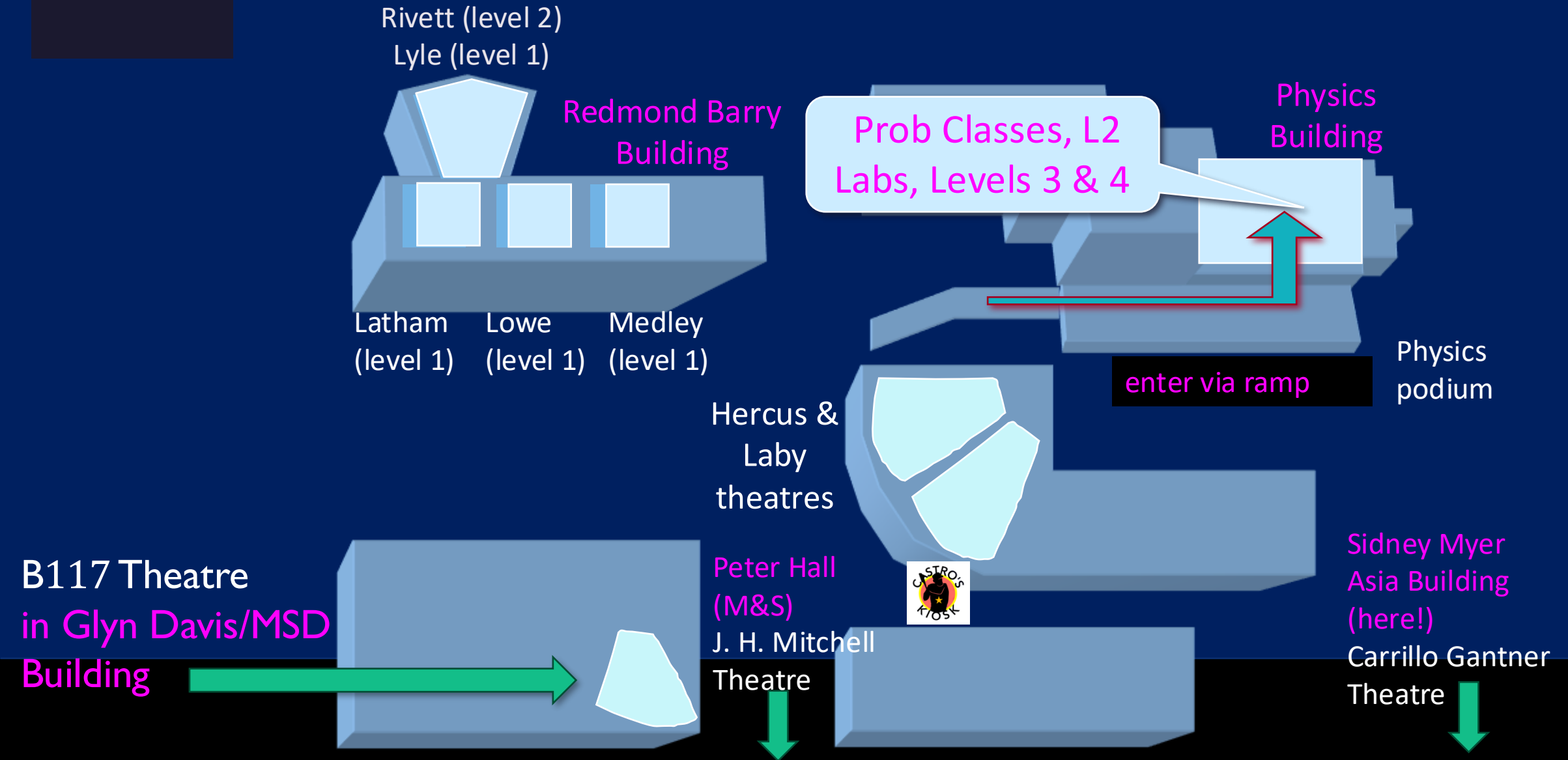
Search



Tip one

Go to all of your classes

Where are lectures, problem classes & labs?



Structure of Physics Subject



- **Classes**

- 3 hours of Lectures per week (36 in total)
- One 1 hour Problem class per week
- one 2.5 hour Practical class or activity per week/per fortnight

- **Assessment**

- Online Homework Quiz – 1 per week (15 %)
- Lab report for each Practical (25 %)
- Exam (60 %)

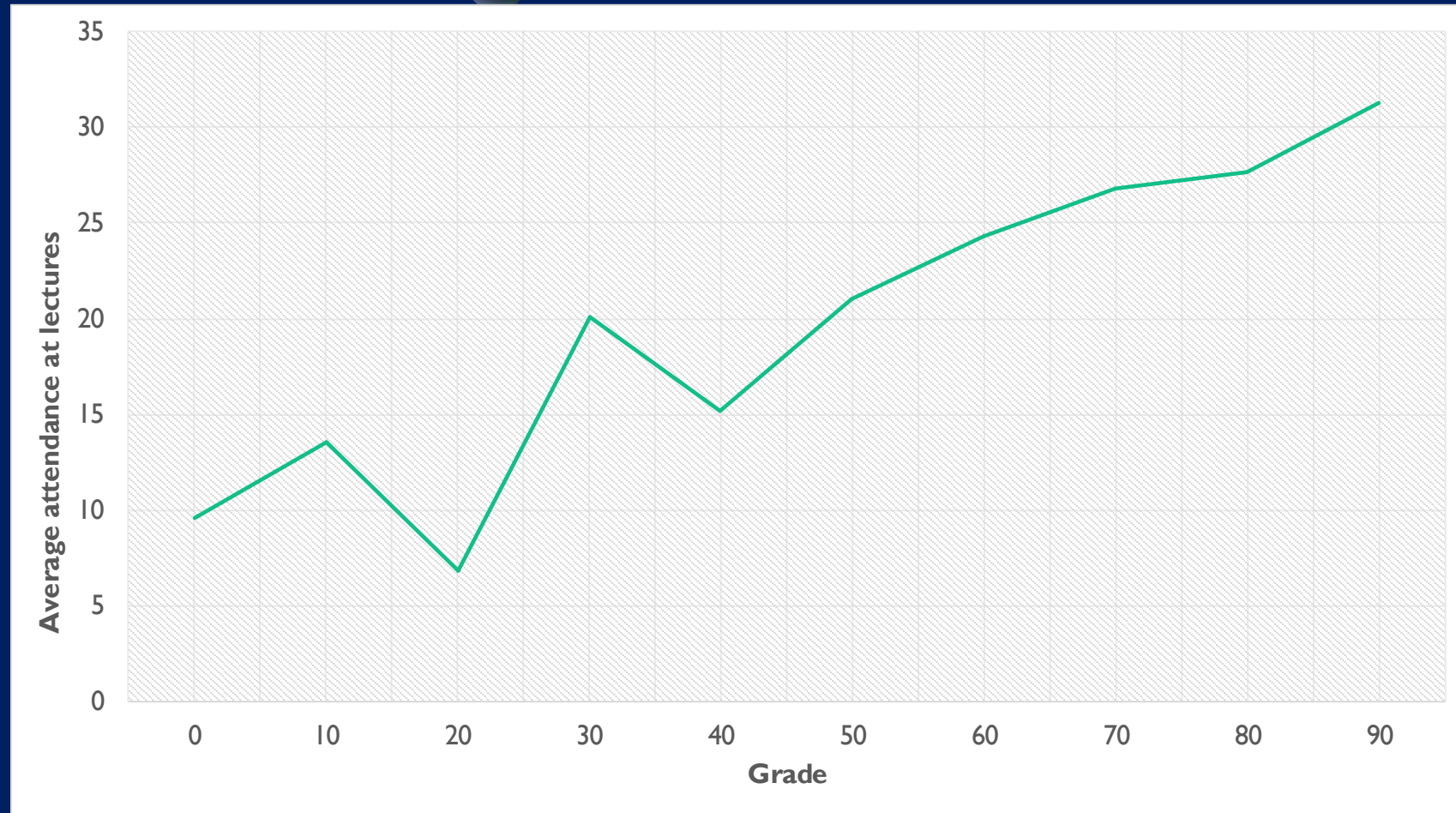
OUR EXPECTATIONS

- 5-7 contact hours a week
- Average 10 hours week total study

Your other time (~ 4-5 hours)

- Reviewing lectures & working with textbook
- Preparing for problem classes and labs
- Solving problems
- Working in study groups

Why turn up to classes



Laboratory classes

- *Begin in week 2 or 3 for most – check the schedule on the LMS*

Time for students to

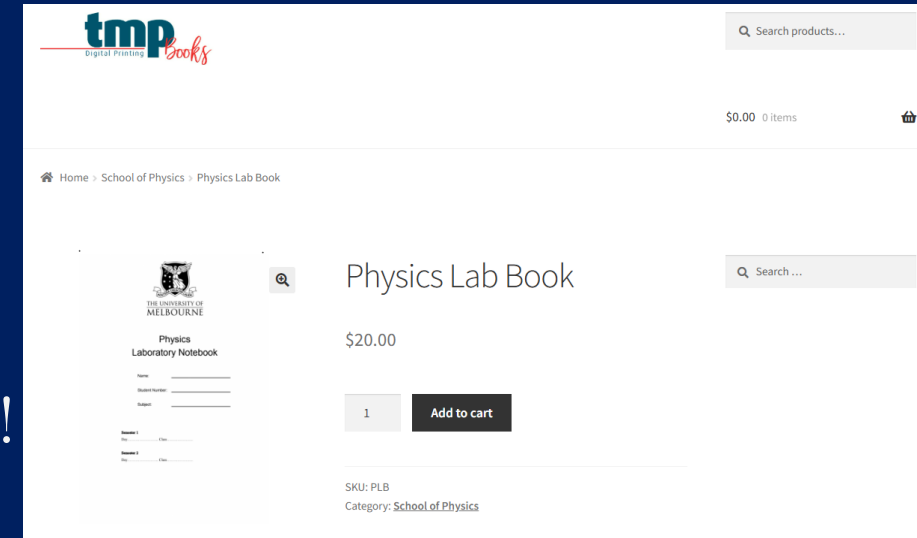
- Learn physics hands-on
- Develop problem solving skills
- Improve your communication
- Learn with other people



Yes, you Need a lab book!



- *All labs are recorded in your lab logbook!*
- For **PHYC10002/3/4/6**:
Order online **ONLY** from TMP Digital
 - Make sure you get your order number to pick it up!
 - Collection times announced on LMS



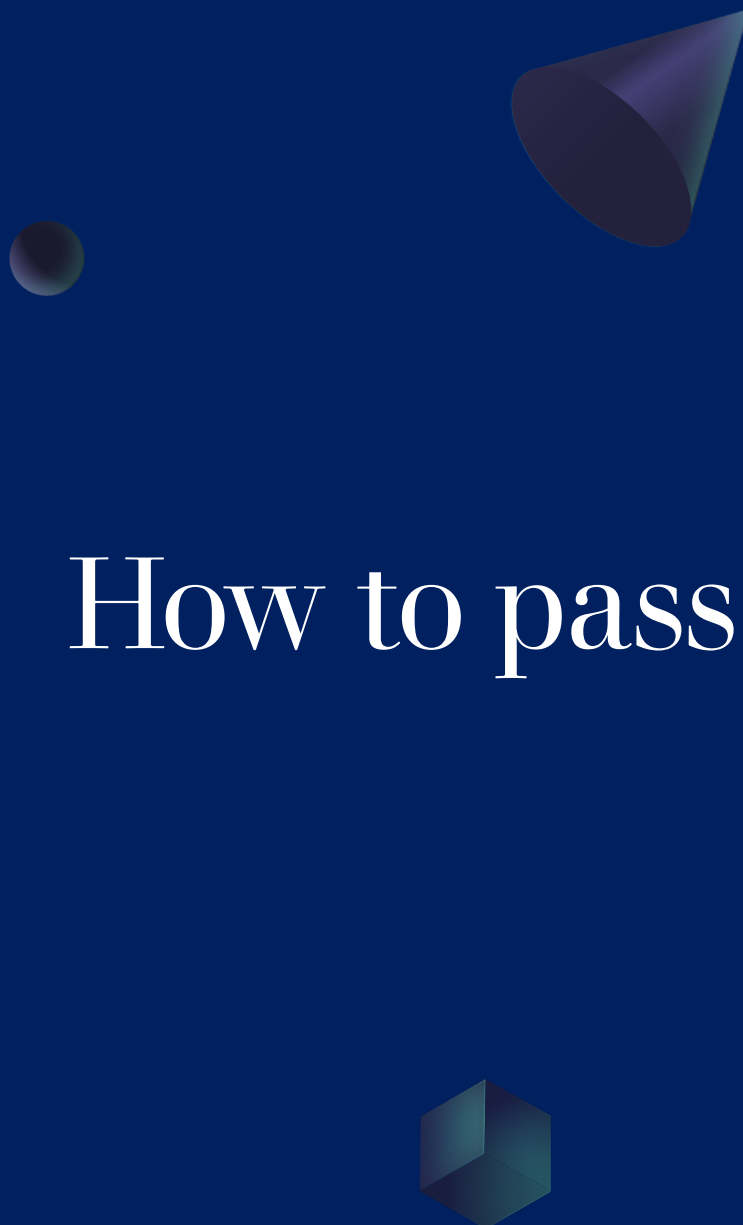
<https://www.tmpdigital.com.au/books/>

<https://www.tmpdigital.com.au/books/product-category/physics>



Tip two

Do all the homework



How to pass

hw	prac	exam	Final
25.4	72.9	38.7	51
48.7	60.0	18.0	36
100.0	91.9	48.0	75
94.5	83.1	46.7	71
17.1	92.5	7.3	31
72.7	84.4	55.3	76
33.5	80.3	40.0	55
92.2	51.9	2.0	28
100.0	73.8	30.0	56
99.1	84.1	50.0	75
47.3	26.9	52.7	55

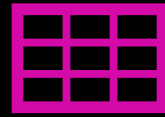
Tip three

Read your emails

Read, send, check



What is your student email address?



Check it daily (at least!)

DO NOT TURN OFF NOTIFICATIONS



Use your student email to correspond.

Tip four

Ask for Help

Team



Daniel Pyke

Director of First
Year Physics



Lecturers



**Senior Teaching
Fellows**



**Tutor /
Demonstrators**

Peer Assisted Study Sessions (PASS)

Subject-based study sessions led by an experienced student

Some benefits include:

- learning effective study strategies
- revisiting difficult concepts
- improving with the help of others

Sessions are free and scheduled weekly from **week 3** to **week 12**



Find out
more here
↙

<https://go.unimelb.edu.au/5nz2>

Academic Skills

Tip five

Search for information

Search

Unimelb ...

- -special consideration
- -Student services and IT
- -exams
- -support
- -library

UMSU ...

- -clubs
- -student events
- -sport

LMS

- -everything to do with your subject(s)
- The Weekly Update!

Engage!



U AFFILIATED CLUB
PHYSICS STUDENTS' SOCIETY

DISCORD: [HTTPS://DISCORD.GG/SBKRTSV9](https://discord.gg/sbkrtsv9)

FACEBOOK: PHYSICS STUDENTS' SOCIETY

INSTAGRAM: @UNIMELBPSS

JOIN



CAREERS
SEMINARS
WORKSHOPS
NETWORKING

FREE!

PHYSICS
STUDENTS'
SOCIETY

FREE FOOD

SOCIAL
EVENTS



U AFFILIATED CLUB
PHYSICS STUDENTS' SOCIETY

All students are welcome!
Come see PSS AT OUR STALLS!!

Learn more about the Physics Students' Society, and the events we have in stall for this year!

FREE physics stickers!
Live physics demonstrations!

Event	Location	Time	Day
0-week Clubs Expo	market hall + building 168	12pm -> 3pm	Mon
science clubs expo	market hall	12pm -> 2pm	Tue

WEEK 1

Physics Students' Society



PHYSICS STUDENTS' SOCIETY

PUB Night

welcome to sem 2...

@The Clyde Hotel
(rooftop garden)
Thursday 30/07
5:30pm -> 7:30pm

Free drinks!

!must have your fd!

U AFFILIATED CLUB



Questions

Schedule



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2:15pm - 2:45pm	Chemistry	Geography



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MELBOURNE

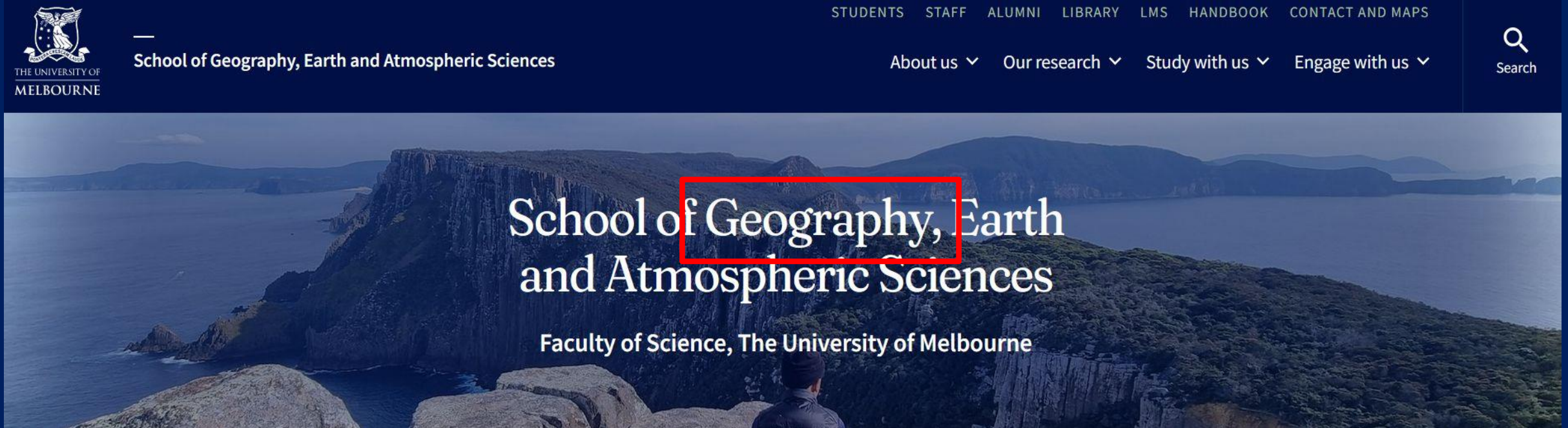
Geography

David M Kennedy
Professor in Physical Geography

<https://sgeas.unimelb.edu.au/>



Getting started with...



Dr Jan-Hendrik May

BSc Major Geography – major coordinator
janhendrikmay@unimelb.edu.au

Interdisciplinary Science – **between & across**



...a strongly multi-disciplinary area of study that focuses on landscapes, people and the way the two interact

Geography integrates both physical science and social science knowledge to provide the skills and conceptual frameworks needed to understand the processes and power relations of the world.

Ice and Water

Atmosphere
(Climate and Weather)

(our oceans)



BSc Major Geography @ UoM – why



*At SGEAS, we are
passionate about our planet.
We are fascinated by the
interconnected web of
systems – water, air, earth
and people – that help sculpt
our complex Earth and
human societies.*

... top ranked of all
disciplines at the University
of Melbourne by the latest
ARWU

World Rank	Institution	Total Score	World-Class Faculty	World-Class Output	High Quality Research	Research Impact	International Collaboration
1	National University of Singapore Singapore	267.3	60.0	96.4	56.0	40.5	14.5
2	University College London United Kingdom	262.5	54.8	91.3	64.6	36.3	15.5
3	University of Oxford United Kingdom	253.6	45.2	91.3	66.3	36.6	14.2
4	The University of Manchester United Kingdom	238.1	51.5	81.6	51.5	38.9	14.5
5	Newcastle University United Kingdom	237.3	41.3	100.0	48.7	33.2	14.1
6	University of Cambridge United Kingdom	232.8	24.3	97.6	60.0	35.3	15.6
7	University of British Columbia Canada	231.8	50.1	74.0	54.5	37.0	16.1
8	Durham University United Kingdom	229.6	33.4	91.3	49.3	39.7	16.1
9	The University of Melbourne Australia	226.5	43.4	72.4	61.2	35.7	13.8
10	Peking University China	225.1	40.3	59.8	68.0	44.3	12.8

BSc Major Geography @ UoM - out and about



data collection, spatial analysis,
critical thinking and writing...

With problem solving skills and
practical experience you will
learn about ...

... **environmental &
social processes**
that shape the world
around us.

BSc Major Geography @ UoM – what is it?



Major in Geography in
Bachelor of Arts

vs.

Major in Geography in Bachelor of Science...

2 subjects 1st year
3 subjects 2nd year
4 subjects 3rd year

... of deep and specialised
study (often incl. field
experience) in geography.

- In your first and second years you will complete geography and related subjects that are **prerequisites** for your major subjects.
- Throughout your degree you will also take **science elective subjects** and **breadth** (non-science) subjects, in addition to your major subjects and prerequisites.

<https://study.unimelb.edu.au/find/courses/major/geography/structure/#nav>

BSc Major Geography @ UoM – get started



OVERVIEW MAJOR STRUCTURE CAREER OUTCOMES

Sample course plan

View some sample course plans to help you select subjects that will meet the requirements for this major.

Showing sample course plan: Earth surface processes specialisation: Start-year intake ▼

YEAR 1
100 PTS

Semester 1	Earth surface processes specialisation: Start-year intake	50 pts	▼
Semester 2	Earth surface processes specialisation: Start-year intake	50 pts	▼

YEAR 2
125 PTS

Semester 1	Earth surface processes specialisation: Start-year intake	50 pts	▼
Semester 2	Earth surface processes specialisation: Start-year intake	50 pts	▼
Summer Term	Earth surface processes specialisation: Start-year intake	25 pts	▼

YEAR 3
87.5 PTS

Semester 1	Earth surface processes specialisation: Start-year intake	37.5 pts	▼
Semester 2	Earth surface processes specialisation: Start-year intake	50 pts	▼

Specialisation ??
Just suggestions...

[Collapse all](#) [Expand all](#)

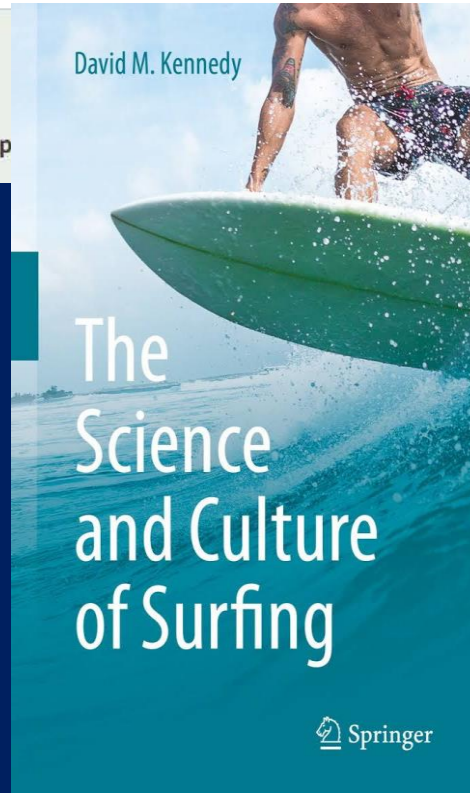
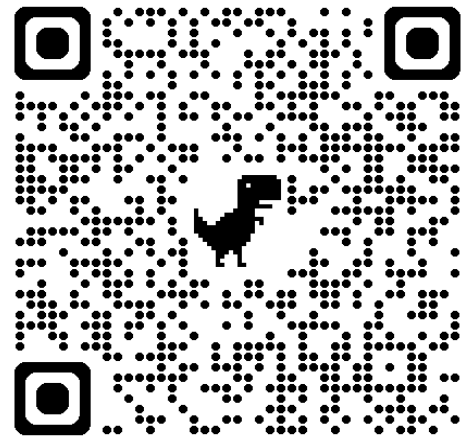
<https://study.unimelb.edu.au/find/courses/major/geography/structure/#nav>

BSc Major Geography @ UoM – steps in 1st year



YEAR 1 100 PTS	Semester 1				50 pts
	ELECTIVE	ELECTIVE	COMPULSORY	BREADTH	
	Famine: The Geography of Scarcity	The Global Environment	Today's Science, Tomorrow's World		
	GEOG10001 12.5 pts	EVSC10001 12.5 pts	SCIE10005 12.5 pts	12.5 pts	
	Semester 2				50 pts
	ELECTIVE		ELECTIVE	BREADTH	
	Understanding Planet Earth				
	ERTH10002 12.5 pts		12.5 pts	12.5 pts	

everyone...



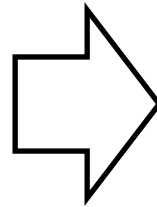
UNIB10028 Australian Surfing



BSc Major in Geography – 1st year...

Interdisciplinary subject, providing students with a broad range of knowledge and analytical tools - draws together natural and social science, introducing students to multiple disciplinary knowledge and practices.

“There are over 820 million people in the world who are chronically malnourished, and world hunger is rising. Yet the world already produces enough food to feed 1.5 times the global population...”



- Famine, malnutrition and scarcity
- Carrying Capacity, resources & environmental foundations of food
- Collapse? Scarcity and crisis in early civilizations
- Green Revolution and China's Great Leap Forward
- Food production, climate and environmental change
- Political economy of hunger, poverty and entitlements
- Trade, Food Security and Gender
- Local solutions? Local farmers and agroecology
- Armed conflict and hunger

Famine: The Geography of Scarcity (GEOG10001)

Undergraduate level 1 / Points: 12.5 / On Campus (Parkville)



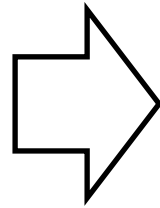


BSc Major in Geography – 1st year...



Interdisciplinary

subject, introduction to
Geoscience,
Geography, Climate and
Environmental Science
- overview of the
processes controlling
the formation and
evolution of our global
environment



- Layered structure of the Earth, both solid and fluid
- Orbital characteristics in controlling global climate
- Major physical features and landscapes of the Earth incl. plate tectonics and sea-level changes
- Widely occurring, important processes
- Chemical and energy cycles
- Patterns in plants and animals are explored at several different scales
- Human impacts on and benefits from global environments are illustrated
- Circulation and interactions of the atmosphere and ocean – global climate past and future

The Global Environment (EVSC10001)

Undergraduate level 1 / Points: 12.5 / On Campus (Parkville)



BSc Major Geography @ UoM – examples 2nd year



Incl. 3 day field trip

The awesome Earth
surface

YEAR 2 112.5 PTS	Semester 1				50 pts	^
	ELECTIVE Landscapes and Environmental Change GEOG20002 12.5 pts	ELECTIVE 12.5 pts	ELECTIVE 12.5 pts	BREADTH China in Transition GEOG20010 12.5 pts		
	Semester 2				50 pts	^
	ELECTIVE Environmental Change & the Human Journey GEOG20015 12.5 pts	ELECTIVE Spatial Analysis in Geography GEOG20017 12.5 pts	ELECTIVE Dangerous Earth ERTH20001 12.5 pts	BREADTH 12.5 pts		
	Summer Term				12.5 pts	v



Stoneage to
anthropocene

Incl. 3 day field trip



Intro to GIS and spatial modelling



Natural hazards in a changing world

BSc Major Geography @ UoM – exciting 3rd year



Summer Term	
MAJOR Global Climate Change in Context <u>GEOG30023</u> ☑	12.5 pts
Semester 1	
MAJOR Coastal Landforms and Processes <u>GEOG30001</u> ☑	12.5 pts
Winter Term	
MAJOR Arid Australia Field Class <u>GEOG30033</u> ☑	12.5 pts
Semester 2	
MAJOR The Disaster Resilient City <u>GEOG30021</u> ☑	12.5 pts

Field
component
!!

COMPULSORY
(one of ...)

Impacts of disasters in cities
considering the role of social
capital and adaptation

Summer Term	
MAJOR Biogeography and Ecology of <u>GEOG30025</u> ☑	12.5 pts
Semester 1	
MAJOR Sustainable Development <u>GEOG30019</u> ☑	12.5 pts
Semester 2	
MAJOR Africa: Environment, Development, People <u>GEOG30024</u> ☑	12.5 pts
MAJOR East Timor Field Class <u>GEOG30026</u> ☑	12.5 pts
MAJOR Local Sites, Global Connections <u>GEOG30027</u> ☑	12.5 pts

‘Sustainable Development’ - a
suitable concept to explore the
challenges facing society

Off-campus
field work in
the Melbourne
area

In what ways are
local sites globally
connected?

The physical environment, history and
development challenges facing Africa

Examples for 3rd year subjects

No field component

BSc Major Geography @ UoM – exciting 3rd year



GEOG30033 Arid Australia Field Class



Flinders Ranges, South
Australia

GEOG30023 Global Climate Change in Context



South Island, New Zealand

Tasmania



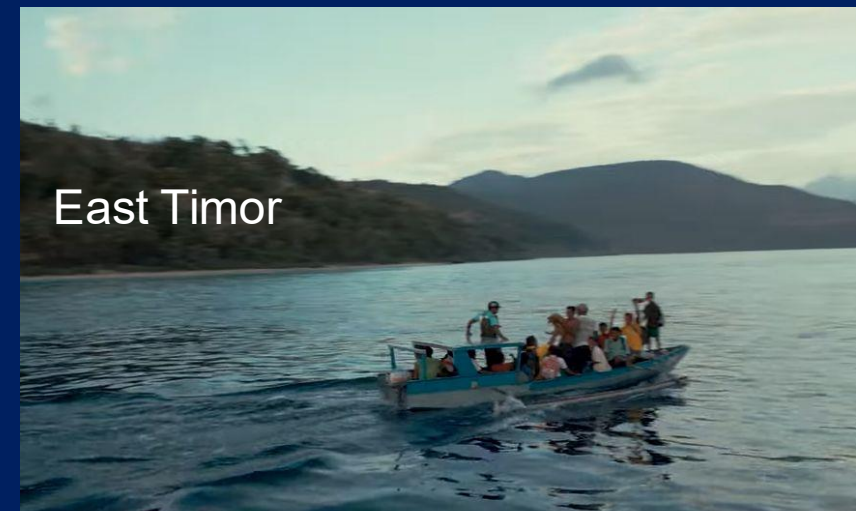
GEOG30025 Biogeography & Ecology of
Fire



Victoria

GEOG30001 Coastal Landforms &
Processes

East Timor



GEOG30026 East Timor Field Class

<https://sgeas.unimelb.edu.au/study/field-trips>

BSc Major Geography – why and where to...



- Thinking ahead?
- Interest in specialising / further study based on interest...
- ... or career plans?

- Skills are transferable across many sectors
- Private environmental and planning firms, as well as consultancies.

- You can also work in government departments concerned with conservation, planning, housing, transport, international aid or hydrology

- Geography employers can include: State and federal government departments, Environment Protection Authority, Parks Victoria, Linfox, BHP Billiton Limited, Water NSW, Universities, DELWP, KPMG and Melbourne Water

FILTER

BY INTEREST

BY SUBJECT

Select keywords to highlight pathways that align with your interests

☐ Climate change	☐ Developing world	☐ Social inequality
☐ Disaster resilience	☐ Globalisation	☐ Population
☐ Conflict	☐ Scarcity	☐ Food security
☐ Refugees	☐ Ocean acidification	☐ Pollution
☐ Water	☐ Sustainability	☐ Erosion

Cartographer

Commercial/residential surveyor

Environmental consultant

Geographical information systems officer

Planning and development surveyor

Secondary school teacher

Town planner

International aid/development worker

Landscape architect

Logistics and distribution manager

Market researcher

Nature conservation officer

Tourism officer

Transport planner

☐ Poverty	☐ Wealth	☐ Mobility
☐ Resources	☐ Urbanisation	☐ Migration
☐ Extinction		

Further Questions & info – **get started**



**MELBOURNE
UNIVERSITY
GEOGRAPHICAL
SOCIETY**

Dr Jan-Hendrik May

BSc Major Geography – course coordinator
janhendrikmay@unimelb.edu.au

<https://study.unimelb.edu.au/find/courses/major/geography/>

@MUGeographicalSociety:

<https://www.facebook.com/MUGeographicalSociety/>



Faculty of
Science

Thank You



science.unimelb.edu.au

