

## Our student intake:

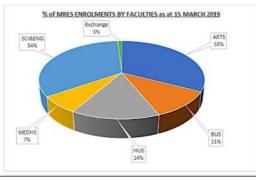


### Year 1 (BPhil) (~60-80 p.a.)

- Requires Bachelor's degree with high attainment (essentially Cr/D average)
- Majority are Macquarie domestic students wishing to supplement U/G coursework with advanced study AND research, i.e. perceive 3+2 yr program
- Prior degree in relevant discipline, i.e. not suitable for retraining into a new discipline

# MRes Year 2 (~140 p.a.)

• Direct entry possible for Masters or Hons students (with Distinction equiv)



Domain A can be seen to define

# BPhil/MRes Year 1 (FSE)

# **Program Learning Outcomes**

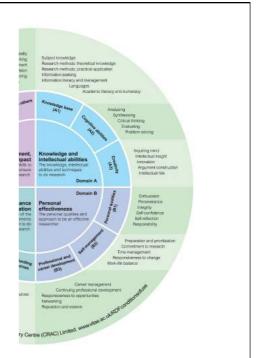
Aims to provide the knowledge, intellectual ability and techniques required for scientific research

## PROVIDES THE Knowledge Base (A1)

- Subject knowledgeResearch methods theory AND practice
- Information literacy and management
- Information seeking

### **ENGAGES Cognitive Abilities (A2):**

- Analysing
- Synthesising
- Critical thinking
- EvaluatingProblem solving





# What these students expect:



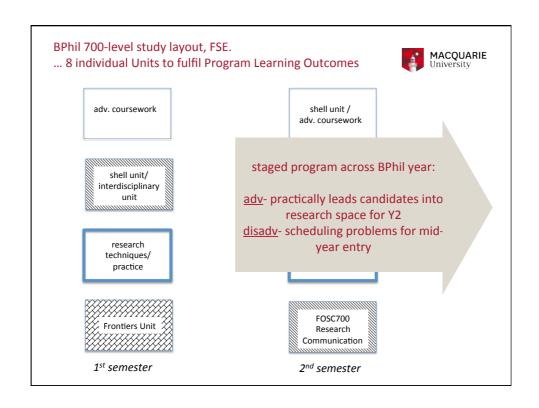


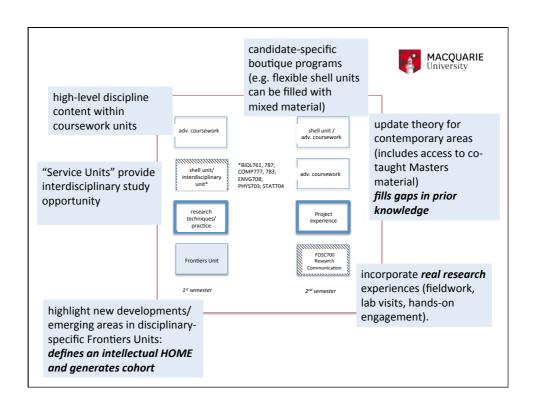


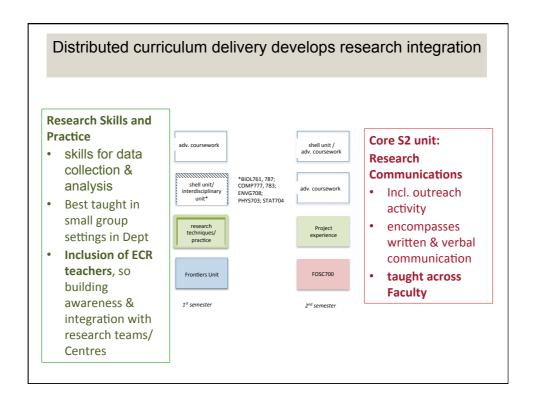


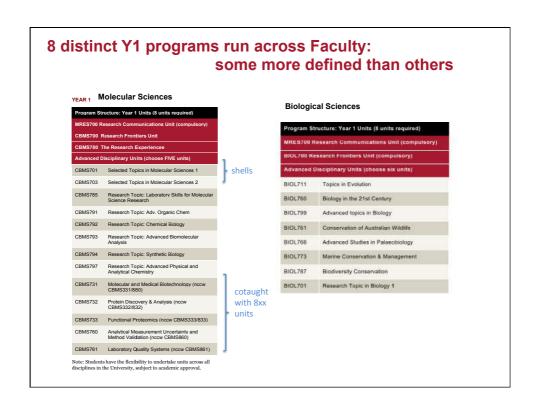


....engagement with research from Day 1





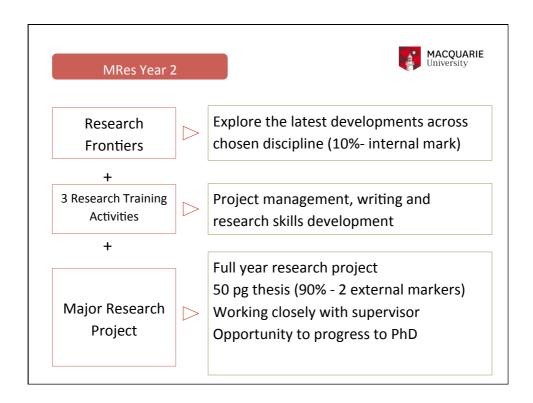


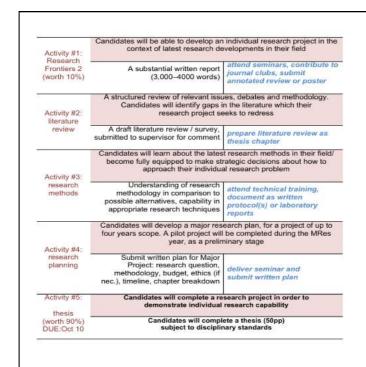


# What our students say...



- The shell unit allowed me to focus on skills specifically valuable for my Year 2 MRes project.
- The lit review and methods tasks were really valuable in getting a headstart on writing,.... skills and methodology used in this area.
- [Most useful features].. "Lab placements, literature review units (especially to get a head start on the thesis but also become more familiar with writing a lit review), workshops, going to the Wednesday seminars".







# MRes Y2 structure in FSE

Activities are coordinated in each Dept by MRes Advisor

In other Faculties, some material is centrally taught

# Early Feedback - 2015 MRes students



### Year 1:

Named highlights: flexible course content, research training units, "getting my hands into research"

Disappointed by lack of advanced content, or practical research experience.

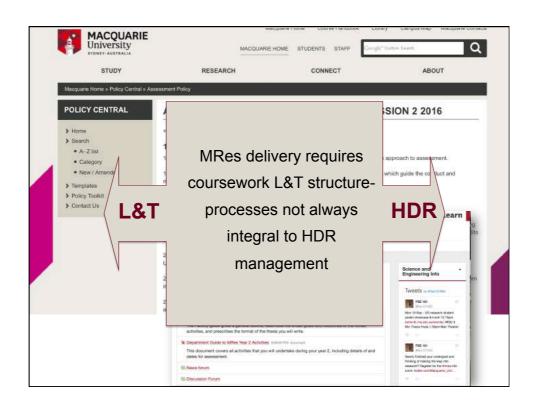
Enjoyed opportunity to participate in research projects, or build practical field skills and/or research

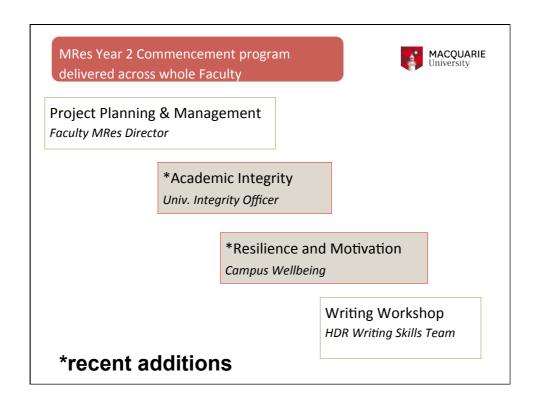
Really useful for giving me time to think over my topic for Y2 and to pilot these ideas in flexible shell units.

### Year 2:

More clear explanation needed in Departments about structure of component Activities (Lit review, Research Methods, etc), and how they articulate with thesis outputs.

Candidates wish to be more integrated into the Dept community.





YEAR 2: two intakes Jan (Oct thesis) Jul (April thesis)

HIGHLY STRUCTURED timeline

Dept Advisors assist candidates & supervisors with time management

This requires engagement by Dept HDR/MRes panels,

not only research supervisors (who mentor research aspects)

### External partnerships & employability:

MRes Y2 candidates are mentored into existing research networks via supervisors.

In 2018, 29% thesis submissions included partnered research:

- Commercial entities & charities
- Local & NSW Govt Botanical Gardens, DPI, RPA hospital, etc
- Interstate engagement- museums, societies, universities
- National Facilities CSIRO, DST, ANSTO
- International incl. European Southern
   Observatory

# Scholarship impact:

# **BPhil**

• DOMESTIC STUDENTS \$4000 PER SEMESTER

# MResYr 2

 COMPETITIVE AWARD OF STIPEND ~ \$26000 (APA RATE)









18

# What our PhD students say...

What aspects of the MRes program (as a whole) have you found most useful in your PhD?

"I think I have used, or will use, almost everything that I learnt in the MRes."

"It acted as an extra year of the PhD, allowing all kinks to be sorted out earlier and everything to be planned fully. It also meant that I was sure the PhD and lab group were right for me"

"I am grateful that I did it vs my friends that haven't -- I believe my project and my confidence in my research is much more developed than those who don't get peer feedback until they start to (or attempt to start to) publish their work"

19

# Introducing our MRes panel: A/Prof Tracy Rushmer Assoc. Dean (HDR) FSE Dr Morten Andersen- MRes Supervisor (Mol Sci) Ms Sayantani Chatterjee – former MRes Y2 candidate (Mol Sci) Mr Jean-Antoine Gazi – former BPhil/MResY2 candidate (Earth Sci))