



THE UNIVERSITY OF
MELBOURNE

HONOURS IN PATHOLOGY



HONOURS IN PATHOLOGY

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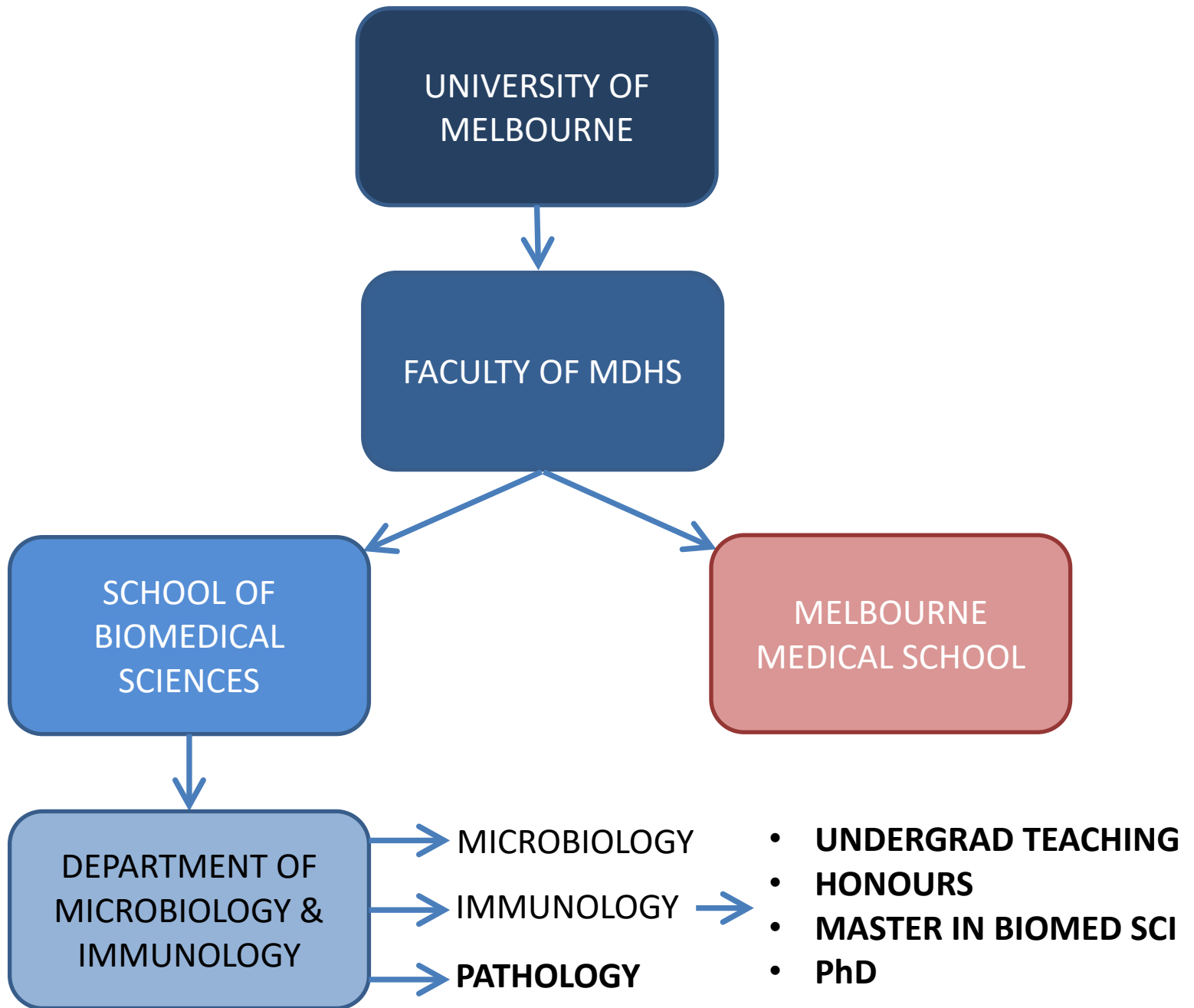
HONOURS IN PATHOLOGY

Undertake a project investigating the biological mechanisms underlying a human disease

Access to experience cutting edge molecular and cellular biology technologies

Research themes:

- Neurodegenerative diseases – prion disease
- Inflammation
- Immunopathology
- Immune oncology
- Diabetes
- Cancer



Honours and Masters by coursework

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Research in the Department

The Department of Microbiology and Immunology is a research and research-lead teaching department of the School of Biomedical Science in the Faculty of Medicine, Dentistry and Health Sciences. The Department's research laboratories are located in the Peter Doherty Institute for Infection and Immunity ([Doherty Institute](#)) which is in the heart of the Parkville research precinct on the corner of Grattan street and Royal parade. The Doherty Institute is a centre of excellence where leading scientists and clinicians collaborate to improve human health globally.

Research Student Projects in Pathology 2021

Honours

Master in Biomedical Science

PhD

Department of Microbiology & Immunology

School of Biomedical Sciences

MDHS

University of Melbourne

PATHOLOGY PROJECT PDF AT:

<https://biomedicalsciences.unimelb.edu.au/departments/microbiology-immunology/study/opportunities-for-honours-students>

Contact supervisor listed about availability and which degree each project is being offered for

The BSc / BBiomed Honours Degree is a qualification that prepares graduates within a discipline:

- for a higher-level qualification involving research
- advances the knowledge, learning skills and application gained in their Bachelor Degree
- A prerequisite for a RHD (MPhil / PhD)
- A path to graduate studies
- Improved job prospects due to practical research experience

How does Honours differ from undergraduate courses?

- “More like a job than study!”
- A need to regularly communicate with supervisors & mentors
- Independent thinking, problem-solving, planning, time and project management
- Most students find their Honours year the most **challenging** and **worthwhile** of their university experience....and simultaneously their “best and worst year at university”.....
- Best because it involves new fields of study in a collaborative space
- Conversely, the Honours year is challenging - **independent research**
– **no textbooks!**

ENTRY REQUIREMENTS

Faculty of MDHS

Details at: <http://mdhs-study.unimelb.edu.au/degrees/honours/entry-requirements#entry-requirements>

Bachelor of Biomedicine (Degree with Honours) or the Bachelor of Science (Degree with Honours), applicants must:

- a weighted average mark (WAM) of at least H3 (65%)

Honours in Pathology:

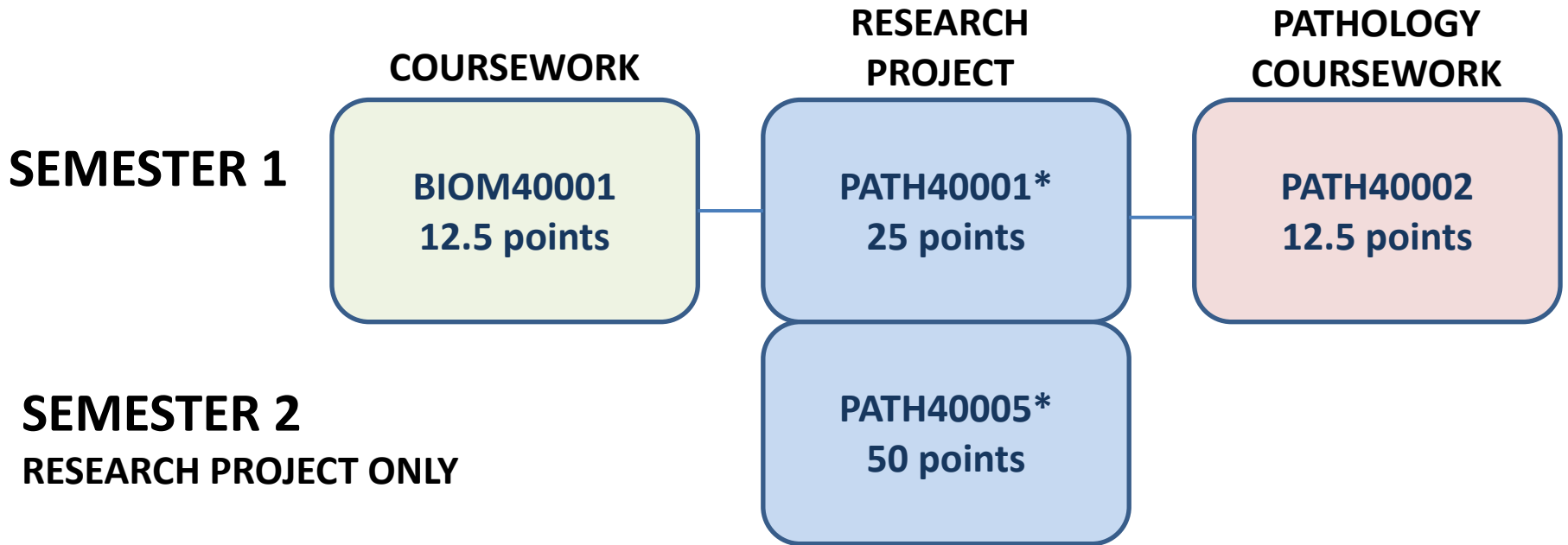
- completed a major in Pathology, **OR** a major in a discipline relevant to the proposed project together with a second-year pathology or pathophysiology subject, or equivalent
- applications from otherwise qualified graduates who have not completed undergrad pathology but have practical experience in another biomedical science discipline will be considered on a case-by-case basis by the Selection Committee

How to Apply

<http://mdhs-study.unimelb.edu.au/degrees/honours/apply-now>

- STEP 1: Look for Projects and Contact Potential Supervisor(s)
- STEP 2: Submit an Online Application
- STEP 3: Submit Project Preferences in Sonia
- STEP 4: Respond to Your Offer

Honours is a 100 points course



- BIOM40001 Introduction To Biomedical Research

- PATH40002 Critical Analysis of Pathology Research

- PATH40001/40005 Pathology Research Project

} RESEARCH PROJECT

HONOURS IN PATHOLOGY COURSEWORK

PATH40002 Critical Analysis of Pathology Research

- skills in reading and understanding of scientific research articles
- skills for the critical analysis of research articles

Description	Timing	Percentage
An oral presentation critically evaluating components of a research paper	During the teaching period	20%
Students are required to perform critical analysis of a research article. This is an open book examination •4 hours	During the teaching period	80%

HONOURS IN PATHOLOGY RESEARCH PROJECT ASSESSMENTS

PATH40001/40005
CONSULT THE
SUBJECT
HANDBOOK FOR
MOST UP-TO-
DATE COUSE
REQUIREMENTS

Description	Timing	Percentage
Hurdle requirement: Submission of draft literature review	Due in May	N/A
An introductory seminar •15 minutes	Due in May	6.7%
A literature Review	Due in October	13.3%
Research thesis	Due in October	66.7%
A defense-of-thesis seminar •30 minutes	Due in November	13.3%

HONOURS IN PATHOLOGY COURSEWORK

PATH40002

CONSULT THE
SUBJECT
HANDBOOK FOR
MOST UP-TO-
DATE COUSE
REQUIREMENTS

Description	Timing	Percentage
Hurdle requirement: Submission of draft literature review	Due in May	N/A
An introductory seminar •15 minutes	Due in May	6.7%
A literature Review	Due in October	13.3%
Research thesis	Due in October	66.7%
A defense-of-thesis seminar •30 minutes	Due in November	13.3%

Lawson laboratory: Neurodegenerative disease caused by prions



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Associate Professor Vicki Lawson
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Head of Laboratory
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Mantamadiotis laboratory: Brain Cancer Molecular Biology



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Prostate Cancer

Head of Research Group



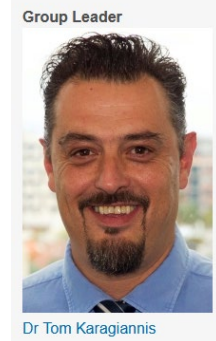
Professor Chris Hovens



Karagiannis research group

Epigenomic Medicine

Key terms: Chromatin biology, epigenetics, DNA damage, nutrigenomics, diabetic foot, wound healing



Dr Tom Karagiannis

Monash University Central Clinical School
Alfred Precinct



