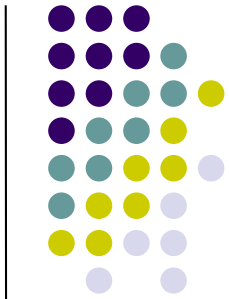
Mathematics and Statistics MSc and AGDip Induction

- Welcome!
- Schedule:
- 1:15 Kirsten Hoak: administrative orientation
- 1:30 Diarmuid Crowley: program and academic orientation
- 2:05 Jennifer Flegg: MSc Masterclass
- At the end: you are invited to a afternoon tea

Some people in the Maths and Stats Community



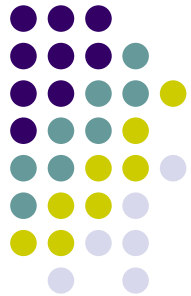
- Academic:
  Prof. Jan de Gier (HoS),
  A/Prof. Diarmuid Crowley (MSc co-ordinator),
- Administrative: *Kirsten Hoak*
- Your supervisor
- Your fellow MSc students
- StaMPS (Stats and Maths Postgraduate Society)

People in the General Office:

- **Kirsten Hoak** is the academic support officer in the general office. She is primarily concerned with the support of postgraduate students and academics in the department.

- **Roy Ridgway** works in the same capacity, primarily with undergraduates.

More people in the General Office:



- **Anna Rodway** is the administrative officer. She can assist with after-hours card access, room bookings and any general enquiries.

- **Joanne Harwood** - HoS* personal assistant.

* HoS = Head of School

Enrolment:

STOP1 handles **all** enrolment issues.

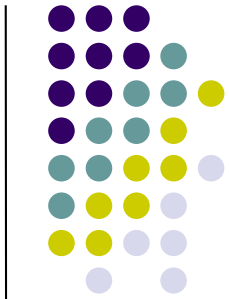
- *Last day to add S1 subjects to your enrolment yourself:* ***Friday 15th March .***
- *Last date to withdraw from S1 subjects without incurring fees:* ***Sunday 31st March.***
- *Last date to withdraw from S1 subjects without incurring a Fail result on your academic Record:* ***Friday 10th May.***

- ***Always check all the dates on your own!!***

Getting permission to enrol

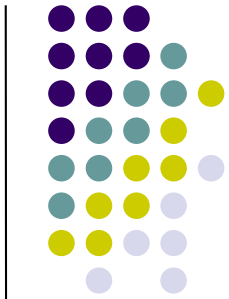
- If you do not a have UoM (University of Melbourne) undergraduate degree, you will need to get the approval of the course coordinator for all your classes.
- For this write to the course coordinator, including a copy of your transcript and explain which subjects you have taken meet the pre-requisites for the class.
- For undergraduate (3rd year) subject and non-MAST (maths and stats) classes you also need the approval of the MSc co-ordinator (DC).

Important links



- Handbook: https://handbook.unimelb.edu.au/2019/courses/mc-scimat
- MSc & GDA: https://ms.unimelb.edu.au/study/current-masters-and-pgdip-students
- MSc Guide: https://ms.unimelb.edu.au/?a=2924280
- Staff: http://ms.unimelb.edu.au/people/academic-staff
- Supervisor list: https://ms.unimelb.edu.au/study/supervisors-list

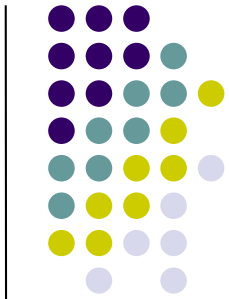
Facilities and House-keeping:



In your New Student Packet:

- Checklist for your reference
- MSc & AGDip students have a *shared* **Hotdesk room** in **G13** for your first semester.
- Please treat desks in G13 like as you would a desk in a library.
- [PLEASE do not run large processes. Speak with IT dept to arrange alternative options.]
- We need to see your **student card** to give you swipe access.

Facilities and House-keeping:



Information for students - emergency Procedures, first aid, reporting hazards…

PLEASE come and chat with Kirsten any time.

She is friendly.

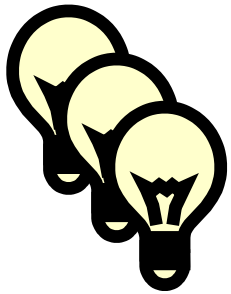
It is a demanding program.

There are often stresses and issues.

We really want you to succeed!

Congratulations!!

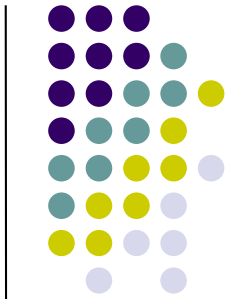
- To us: we gained new ***bright*** advanced level students



- To the new MSc & AGDip students: you made a good decision!
- *Chance favours the prepared mind*

  (Louis Pasteur) – so let's get it prepared!

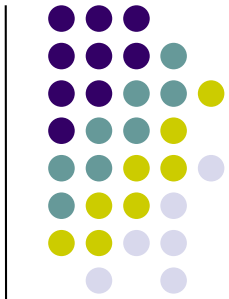
Areas of specialisation



The MSc program has four areas of specialisation, where are relevant for the course work structure of your degree:

1. Applied Maths and Mathematical Physics
2. Discrete Maths and Operations Research
3. Pure Maths
4. Statistics and Stochastic Processes

Course work structure



- 11 Discipline subjects
- 1 Professional tools subject*
- 4 ``subjects'' for the Research Project

11 = ((2 + 3) + 2) + 4

2 Core + 3 Elective in specialization (MAST)

2 in another specialization (MAST)

4 Further discipline (may include non-MAST)

* May be waived.

Make a subject plan!!!

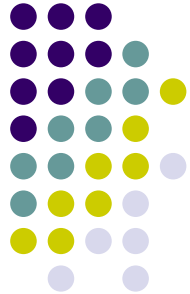
The professional tools subject is compulsory

- In general, take one of

1. MAST90045 Systems modelling & simulation
2. COMP90072 The art of scientific computation

- This ensures all MSc graduates have some basic programming skills.
- If you have taken another class with a strong programming component, you may enroll in one of SCIE90012 Science Communication or SCIE90013 Communication for Research Scientists instead.

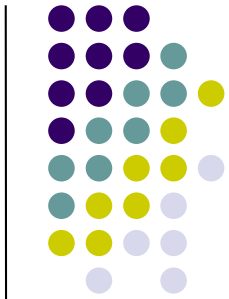
Your MSc course plan



- Make a subject plan for your MSc:
- Check course pre-requisites in the handbook
- You may take 2* third year MAST subjects if needed - this can be a very good strategy.
- Review and update your plan as your MSc progresses.

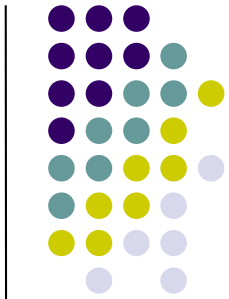
* Possibly 4 with course co-ordinator (DC) approval)

Research project



- Find a supervisor in your 1st semester.
- Aim to start in your 2nd semester.
- Research 1 (12.5) - complete literature review
- Research 2 (12.5) - complete project review
- Research 3 (25) - complete thesis and presentation
- There are pass/fail hurdles for Res 1 and Res 2.
- Three semesters rule: 18 MONTHS, NO BREAKS.
- Read the Handbook entry & the Guide!
- https://handbook.unimelb.edu.au/view/current/MC-SCIMAT

Finding a supervisor



- Pathways to finding a supervisor:
- Lecturers
- MSc pages: *List of possible supervisors*
- Advisors by speciality:
  - Applied Maths– Barry Hughes
  - Pure Maths – Daniel Murfet & Arun Ram
  - Mathematical Physics – Omar Foda
  - Operations Research – Peter Taylor
  - Discrete Maths – Michael Wheeler
  - Probability – Kostya Borovkov
  - Statistics – Guoqi Qian
- Once you find a supervisor, have them fill out the Supervisor form to finalise your enrollment.

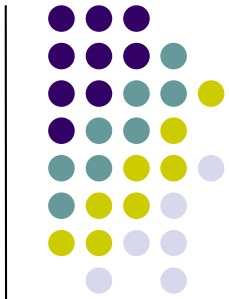
Get oriented, get involved and stay in touch

- E-mail: information is circulated regularly
- Read email daily!
- Uni Handbook & MSc/AGDip Guide 2018
- https://ms.unimelb.edu.au/study/current-masters-and-pgdip-students
- https://ms.unimelb.edu.au/people/academic-staff
- Attend your classes regularly: inform you lecturer if you have to miss a week of lectures

Get oriented, get involved and stay in touch

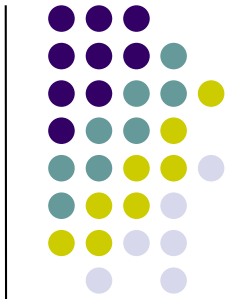
- Attend the Departmental Colloquia (usually Tuesdays 12 noon; read your e-mail!)
- Attend research seminars
- You are expected to give ≥ 2 seminars (1+**1**).
- Attend MSc Master Classes

MSc Master classes



- **Program objective:** Understand how to thrive in our masters program
- **Social event:** Friday 8th March, 4-6pm, west entrance lawn to Peter Hall
- **Starts:** Friday 15th March, 2.15pm, Evan Williams
- **Helpful skills for your Masters project :**
  These sessions are designed to help you develop skills that will support your research
- **Program conveners:** Jennifer Flegg, Susan Wei, Thomas Quella & Prof Antoinette Tordesillas
- **Questions/feedback to:** jennifer.flegg@unimelb.edu.au

StaMPS: Statistics and Mathematics Postgraduate Society



- Masters 101 and free coffee

1. Wednesday 6th March 1:00pm – 2:15pm
2. Start in Evan Williams Theatre
3. Hear from current students about the MSc
4. Free coffee at Castro's to conclude

- MSc student seminar

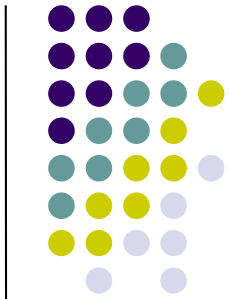
1. Weekly, Wednesdays at 12.00pm (from Week 2)
2. Learn about research of your fellow MSc students

Contact:stamp@ms.unimelb.edu.au
Sing up: https://form.jotform.co/90508322063853

Some general advice

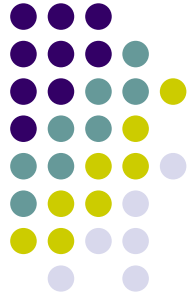
- Advanced level mathematics and statistics is difficult and rewarding:
  - Research is a (beautiful) challenge;
  - Reading your first research paper is tough;
  - Putting your thoughts on paper is an art;
  - Everybody is different.

Some more general advice



- *Let me tell you the secret that has led me to my goal: my strength lies solely in my tenacity* (Louis Pasteur)
- Time management is an essential skill for success
- Estimated time commitment: 170h per subject
- Talk with your fellow MSc students (pause)
- Talk with your lecturers
- Life is good: always think positively
- *Smile… tomorrow will be worse* (Murphy's law)

School Masters Scholarships



- There are School scholarships:
- $2,000 per semester for full-time students ($\geqq$37.5 =3 subjects)
- Up to $6,000 total per student.
- Keep your average mark at 75+!
- Announced after the census date of the following semester.
- There are also prizes for best final results and best research theses.

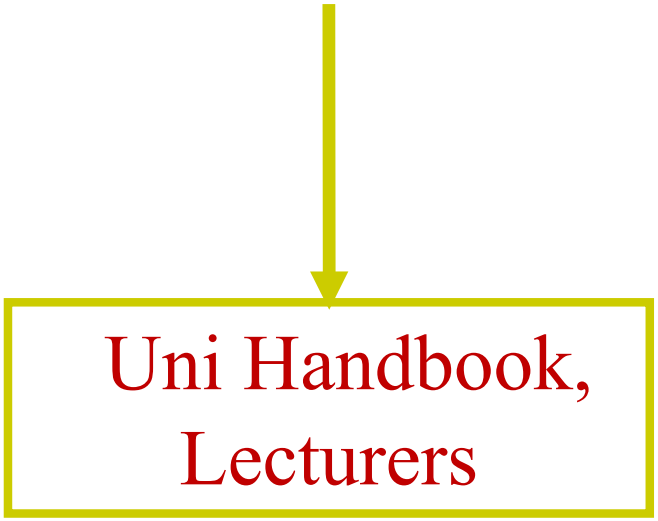
Help with choice of subjects & research topics, supervision and discussion of your research project, feedback, progress monitoring, advice on thesis writing etc.

Supervisor

Co-supervisor (if any)

MSc coordinator:
Diarmuid Crowley

Coursework content and requirements, method of assessment, references, assignments, examinations and all other issues regarding your chosen subjects



Uni Handbook, Lecturers

Desk allocation [Research 2],
keys [if any], thesis submission [if any],
other local administrative issues related to the
MSc & AGDip programs

Student Administration Officer

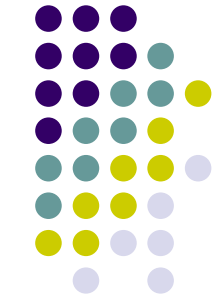
Kirsten Hoak

Computers, software, email accounts, document backup, Internet, other issues related to computing resources and support

University Services IT support: 834 40888

It is strongly recommended that you back up your files!!

Internet usage: No unauthorized movie/music downloading and/or audio/videoconferencing please. Draconian fines apply



Other Issues

MSc & AGDip coordinators

A/Prof. Diarmuid Crowley

Issues that cannot be resolved at the level of

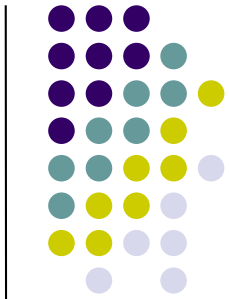
MSc & AGDip coordinators

Chair of PPC Committee

Prof. Christian Haesemeyer

Head of School

Prof. Jan de Gier



Good luck!