

# Induction Session for Computer Science Postgraduates (GradDipComp and MComp, MComp(Adv))



Research School of Computer Science  
ANU College of Engineering and Computer Science  
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(slides available from <http://cs.anu.edu.au/~Peter.Strazdins/seminars>)

# Welcome all new GDC, MComp and MComp(Adv) Students!

- overview of the GDC, MComp and MComp(Adv) programs
- overview of the Specializations
- support
- computing environment
- resources
- what to do next. . .

# Overview of the Graduate Diploma in Computing

- as stated on P&C page, for upskilling of CS or non-CS graduates in minimum time
- suggested enrollment for S2 2019:
  - COMP6710 Structured Programming (S2)
  - COMP6250 Professional Practice 1 (S2)
  - computing electives (12u, S2)
  - MATH6005 Discrete Mathematical Models (S1)
  - COMP6442 Software Construction (S1)
  - computing electives (12u, S1)
- if seeking to follow up with MComp (need GPA  $\geq 5$ ), can be granted a year of credit;  
suggest electives include:
  - COMP6240 (S2), COMP8260 (S1), COMP6340 (S1)

# Overview of the Master of Computing

- as per P&C page: also for both CS and non-CS graduates
  - CS graduates should have obtained exemption/status for MATH6005 and COMP6710 (possibly also COMP6240 and COMP6331)
- latest study plans available here
  - note: COMP6260 Foundations of Computing is now an alternative for MATH6005 Discrete Mathematical models
  - these plans are *NOT* prescriptive! e.g. project over 1 semester can be done in either S1 or S2
  - these study plans spread electives throughout all semesters; alternately could aim to finish more core courses in first year
- an exemption for COMP6250 Professional Practice I may be obtained after passing diagnostic test in Week 1 (must first enrol and register to attend test)

## Course Selection Issues in the Master of Computing

- core course choices (which semester, content, technical difficulty):
  - computational foundations: MATH6005 (S1) vs COMP6260 (S2)
  - databases: COMP6240 (S2) vs COMP6420 (S1)
  - networks: COMP6340 (S1) vs COMP6331 (S1)
  - software engineering: COMP6120 (S2) vs COMP8190 (S2, 2020)
- final year projects: COMP8715 (TechLauncher, 2 sems) or COMP8755 (individual, 1 or 2 sem) or COMP8830 (internship, 1 sem, must apply): details
- 5 CS electives: at least 2 must be COMP8000-level!
- (without credit or exemptions) care must be taken to complete a Specialization!
- can upgrade to MComp(Advanced) after 1 year with  $\text{GPA} \geq 6$ :  
including COMP8260, COMP6442 and 2 'Advanced' courses in 1st-year electives as well; choose COMP6420 & COMP6331

## Overview of the Master of Computing (Advanced)

- as per the P&C page, for CS graduates aiming for an industry R&D leadership role or a PhD pathway
- differences from the MComp:
  - no 'introductory' courses in the core (MATH6005, COMP6710, COMP6250)
  - has the more advanced database and networks courses
  - instead of COMP8110 Project Management and a 12u project, COMP6445 Computing Research Methods and 24u COMP8800 Research Project
- latest study plans available [here](#)
- a GPA of  $\geq 6$  must be maintained in the 1st year (otherwise transferred to the MComp)

## Postgraduate CS Specializations

- Artificial Intelligence (suggest take COMP6260 in S2 2019 to make room):  
S1 2020: COMP6262 Logic , COMP6320 AI  
S2 2020: COMP8620 Adv. AI, COMP8691 Optimisation or COMP8670 Adv. Logic
- Data Science:  
COMP6490 Document Analysis (S2), COMP8410 Data Mining (S1, 2020),  
COMP8430 Data Wrangling (S2, 2020) + 1 AI/ML course
- Machine Learning: can (possibly) start on COMP6490 and/or COMP6670 Intro. ML straight away! (S2)
- Human Centred Design and Software Development
- considerations: interest, industry value, degree of technical difficulty
- note: choosing a Specialization can have an impact of when you take your core courses

## Support for Postgraduate CS Students

- **CS P/G Convenor:** Peter Strazdins, [Peter.Strazdins@cs.anu.edu.au](mailto:Peter.Strazdins@cs.anu.edu.au), CSIT N217, x55140

for *academic advice*: advice on enrolment, program progression and variation

When seeking a consultation: offer at least at least 3 timeslots that suit you, have your ISIS 'Statement of Results' ready, call to be let in

- **CECS Student Services:** [studentadmin.cecs@anu.edu.au](mailto:studentadmin.cecs@anu.edu.au), CSIT N202, x54450

for *administrative advice*: applying for exemption, overload, late enrollment, etc

Note: for visa-specific matters, you must talk to your visa provider

- **Course Convenors:** for specific help (e.g. on assignments) on each course that you will enrol in, link to respective course web page from Current Postgraduate Students Courses page



## CS Computing Environment

- first floor CSIT building has labs with Linux workstations (User Guide)  
Note: CSIT N111 is (mostly) reserved for postgraduate students
- can log in remotely via server `partch`, i.e. `ssh u8914893@partch.anu.edu.au`
  - on a Windows machine, you will need to install a Secure Shell client, e.g. by the Cygwin Linux emulation package, from <http://www.cygwin.com>
- CECS IT Support: `helpdesk@cecs.anu.edu.au`, CSIT N117 x54321#25  
for all technical support relating to the CS Linux labs
- you also have access to ANU IT services
- once enrolled, you will have an ANU email account  
(`firstname.lastname@anu.edu.au` or `u999999@anu.edu.au`)
  - only use this to contact RSCS/CECS/ANU staff! Quote your uni id!
  - ANU staff will contact you by it: please check it regularly!

## Resources for Postgraduate CS Students

- Current Postgraduate Students [web page](#)
  - Useful links (Timetabling, Academic Skills & Learning, Counselling)
  - FAQs (Degree Plans and Enrolments, International Students, Resources)
  - Courses (semesters/years(!) offered, course web pages and convenors)
- from the corresponding undergraduate page,
  - CS Student Handbook: assessment issues
  - CS Computing Environment Handbook: guide to the CS Linux labs
- CS 6000+ Piazza Forum <https://piazza.com/anu.edu.au/spring2016/cs6000/home>
  - Q&A forum, Resources (Course Information, Resources – study plans)
  - you will be automatically added to forum in week 1
  - or can self-enroll via <https://piazza.com/anu.edu.au/spring2016/cs6000>

## What to do Now?

- decide on Specializations and electives (start now!)
  - study course P&C entries and web pages
  - if needed, contact course convenors for further information
- complete your enrollment on-line on ISIS (week 0)
  - any questions, go to the Academic Advisory Sessions (Ian Ross Seminar Room) on 16th & 17th
  - note: you can freely change your enrollment till end of week 2
- find out your lecture/tutorial times on the ANU timetable (week 0)
- register for your tutorials; for each course, either by StReaMs (<https://cs.anu.edu.au/streams/>) or Wattle (weeks 0–1, the earlier the better!)
- begin attending classes (week 1)
- have a great semester!