Structured Programming

COMP1110/COMP1140/COMP6710

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Introductions

- Patrik Haslum (co-convenor & lecturer)
  - Research: AI (reasoning, planning, diagnosis); optimisation.
  - Teaching: Introductory programming.
- Hongdong Li (co-convenor & lecturer)
  - Research interests: Computer vision, machine learning
  - Teaching: ...
- Tutors: Ashley, Austin, Cathy, Chenyang, Chloe, Daniel, Oscar, Patrick, Piyumal, Rob, Sam, Sam, Tal, Vikram, Xin, Yash, Yumeng

Introductions

- Who are you?

CECS Class Representatives

Class Student Representation is an important component of the teaching and learning quality assurance and quality improvement processes within the ANU College of Engineering and Computer Science (CECS).

The role of Student Representatives is to provide ongoing constructive feedback on behalf of the student cohort to Course Conveners and to Associate Directors (Education) for continuous improvements to the course.

Roles and responsibilities:

- Act as the liaison between your peers and conveners.
- Be creative, available and proactive in gathering feedback from your classmates.
- Attend regular meetings, and provide reports on course feedback to your course convener
- Close the feedback loop by reporting back to the class the outcomes of your meetings.

Why become a class representative?

- **Ensure students have a voice** to their course convener, lecturer, tutors, and College.
- **Develop skills sought by employers**, including interpersonal, dispute resolution, leadership and communication skills.
- **Become empowered**. Play an active role in determining the direction of your education.
- **Become more aware of issues influencing your University** and current issues in higher education.
- **Course design and delivery.** Help shape the delivery of your current courses as well as future improvements for following years.

Note: Class representatives will need to be comfortable with their contact details being made available to all students in the class.

For more information regarding roles and responsibilities, contact:

ANUSA CECS representatives: sa.cecs@anu.edu.au

Want to be a class representative? Nominate today!

Please nominate yourself to your course convener.

Course goals

Introduction to…

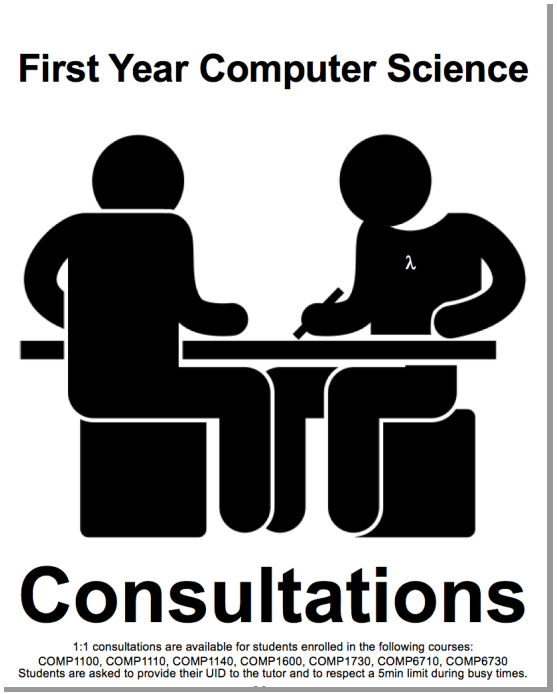
- **Programming**
- **Core Computer Science**
  - Object oriented programming
  - Data structures, algorithms
- **Software Engineering (very little)**
  - Testing
  - Version control (git)
- Gateway to COMP2100/6442, COMP2120, ...

Mechanics

- Course web site
  - https://comp.anu.edu.au/courses/comp1110/
  - Lecture notes, schedule, labs, assessment info, policies, FAQ...
- Lectures
  - Lecture notes on web site shortly before/after each lecture
  - Example code will be available in gitlab repo
- Online resources
  - https://comp.anu.edu.au/courses/comp1110/help/online/
  - Java tutorials, API docs, Java visualiser, text books, …

Mechanics

- Labs
  - Week 1 labs all open to everyone
  - Enrol in a lab group by the end of week 1
- gitlab (https://gitlab.cecs.anu.edu.au/comp1110)
- ed forum (https://edstem.org/au/courses/18259/)
- Drop-in consultations (from week 2)
  - Course schedule on MyTT for times and locations



Week 1 labs – getting started

- Go to any and as many labs as you like (week 1 only)
- Note: Labs … are NOT running.
- Basic setup:
  - Fork and clone the labs repository
  - Set up IntelliJ
  - Set up your own computer (not required, but recommended)
- Getting more help
  - CSSA InstallFest – Friday ??/?? in ...

Assessment

- 5% Lab test (Week 4)
- 5% Individual Assignment 1 (due start of Week 4)
- 5% Lab engagement
- Lab test, Assn 1 and engagement are redeemable via final exam.
- 35% Assignment 2
  - Design and implement a larger application (almost) from scratch.
  - Several deliverables due throughout the semester.
  - May be done in a (small) group.
- 50% Final exam

Hurdle Assessments

- You must **pass** the **basic competency assessment**, in week 5.
  - Students who achieve at least 50% on the lab test in week 4 are *exempt* from the basic competency assessment.

Failing the the hurdle will result in automatic failure of the course (you can still drop the course without failure).

- You must **achieve a mark of at least 40% in the final exam**.

Please read the assessment overview page on course web site.

Plagiarism

Honesty and integrity are paramount.

They are not at odds with research and collaboration.

Do be resourceful, collaborate and engage.

Never represent anyone (or anything) else's work as your own.

Do read the ANU's position on academic integrity
http://academichonesty.anu.edu.au/

Code Assistance and AI

Copilot, ChatGPT, etc…

- Copyright legal ambiguity.
- Unreliable – needs a professional to evaluate output.
- **Learn by trying yourself** is still the only way to become that professional.
- **Reasonable uses**: explaining code, helping to debug, suggesting alternatives / improvements.
- **Not permitted (or available)** in the **labtest**, **basic competency test** or **final exam.**

“You can know the name of a bird in all the languages of the world,

but when you're finished, you'll know absolutely nothing whatever about the bird...

So let's look at the bird and see what it's doing -- that's what counts.

I learned very early the difference between knowing the name of something and knowing something.”

Richard Feynman