

CSE1301 Computer Programming: Introductory Lecture

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People Involved

- Lecturers
 - Dr Tim Ferguson, Building 75 (192)
tim.ferguson@infotech.monash.edu.au
 - Dr Bernd Meyer, Building 75 (148)
bernd.meyer@infotech.monash.edu.au
- Assistant lecturer
 - Mr Cameron McCormack, Building 75 (153)
Cameron.McCormack@infotech.monash.edu.au
- Tutors and Demonstrators

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Overview

- Computer Systems
- Simple Boolean Algebra
- Algorithms
- Control Structures
- Data Structures
- Structured Programming: C
- Numerical Computing
- Software Engineering Principles
- Testing, Debugging & Documentation

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| Week number | Week starting | Tuesday (S6) 11am or 2pm | Wednesday (S6) 12noon or 2pm | Thursday (H6) 12noon or 2pm | Tutorial | Practical | |
|-------------|---------------|--|---------------------------------|--------------------------------|---------------------------|---|--|
| 1 | 28 Feb | Course Intro | L1. Systems | L2. Algorithms 1 | | No Prac <i>Get your Computer Account working</i> | |
| 2 | 7 Mar | L3. Algorithms 2 | L4. C Primitives 1 | L5. C Primitives 2 | | P1. Getting Started | |
| 3 | 14 Mar | L6. C Primitives 3 | L7. Input/Output | L8. Booleans | T1. Algorithms | P2. Coding Simple Algorithms | |
| 4 | 21 Mar | L9. Selection | L10. Iteration 1 | L11. Iteration 2 | T2. Array & Rec. Express | P3. Cont'd, optional | |
| - | 28 Mar | Mid-Semester Break | | | | | |
| 5 | 4 Apr | L12. Algorithm Design | L13. Functions 1 | L14. Functions 2 | T3. Selection & Iteration | P4. Selection & Iteration | |
| 6 | 11 Apr | L15. Pointers 1 | L16. Pointers 2 | L17. MID-SEMESTER TEST | T4. Functions | P5. Functions | |
| 7 | 18 Apr | TEST REVIEW | L18. Arrays | L19. Flowcharts and Debugging | T5. Pointers | P6. General, Pointers | |
| 8 | 25 Apr | L20. Case Study: Functions & Pointers & Arrays | L21. Strings | L22. File IO | T6. Flowcharts & Arrays | P7. Arrays | |
| 9 | 2 May | L23. Structures 1 | L24. Structures 2 | L25. Software Engineering | T7. Strings & File IO | P8. Strings & File IO | |
| 10 | 9 May | L26. Case Study: Project | L27. Recursion 1 | L28. Recursion 2 | T8. Structures & S.E. | P9. Structures | |
| 11 | 16 May | L29. Numerical 1 | L30. Numerical 2 | L31. List 1 (Search) | T9. Recursion | P10. Recursion | |
| 12 | 23 May | L32. List 2 (Sort) | L33. List 3 | L34. History | T10. Numerical & Search | P11.(*) Numerical & Search | |
| 13 | 30 May | L35. Revision 1 | L36. Revision 2 | L37. T.B.A. | T11. Sorting | P12.(**) Sorting | |

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Time Requirements

- 3 x 1 hour lectures
- 1 x 1 hour tutorial (compulsory)
- 1 x 3 hour practical (2 hours compulsory)

... plus preparation at home
(nominally 6 hrs!)

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Course Materials

- Introductory Notes
- Lecture Notes
- Practicals (Lab) Notes
- Tutorial Exercise Sheets

<http://www.csse.monash.edu.au/courseware/cse130>

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Textbooks

- Prescribed:
 - King K.N., *C Programming: A Modern Approach*, Norton 1996
- Recommended:
 - Deitel & Deitel, *C How to Program*, Prentice Hall 1994 (2nd edition)
 - Brookshear, J.G., *Computer Science: An Overview*, Benjamin-Cummings 2000 (6th edition)
 - Kernighan & Ritchie, *The C Programming Language*, Prentice Hall
- References listed in the Introductory Notes

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Recommended Entertainment

“*The Turing Omnibus - 66 excursions in computer science*”

A.K. Dewdney
Computer Science Press, NY, 1993.

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Timetable Synopsis

- Lectures
 - Wednesday 11am (S6) or 2pm (S4)
 - Thursday 12noon or 2pm (C1)
 - Friday 12noon or 2pm (C1)
- Practicals/Labs (pracs)
 - Once/week (2-3 hours)
- Tutorials (tutes)
 - Once/week (1 hour)

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Practicals

- 2 hrs/week compulsory (3rd hour optional)
- Locations and Times see Allocate+
- Conducted by “Lab Demonstrators”
- Start in Week 2
 - **Organize your computer account before the first prac**
(<http://www.its.monash.edu.au/faq/register.html>)
- Notes available in first practical class
 - may be downloaded from the WWW

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Prac Requirements

- Computer account:
 - username, Authcate password, Novell password
 - Where?
 - <http://www.its.monash.edu.au/faq/>
 - ITS Helpdesk: Building 10 (Campus Centre), room G161
 - Bring student ID card
- Two (blank) floppy disks for every prac

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Software used in Pracs

- Compiler: Borland C (version 5)
- Free versions are available:
<http://www.borland.com>

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Catch-up Pracs (first two pracs)

- Watch the noticeboard and the course web page
<http://www.csse.monash.edu.au/courseware/cse1301>

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Tutorials

- 1 hour/week compulsory
- Held in Menzies Building
- Conducted by “Tutors”
- Start in Week 3
- Notes available in the first tutorial
 - free, but replacements may be at cost
 - may also be downloaded from the WWW

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Missed Pracs and Tutorials

- If you miss a prac or tutorial, you will be marked ABSENT, **unless...**
 1. You attend another prac **the same week**
(with the approval of the Assistant Lecturer)
 2. You email clm@mail.csse.monash.edu.au :
 - NAME:
 - ID NUMBER:
 - DATE OF REPLACEMENT PRAC:
 - REGULAR PRAC: (time and room)
 - REPLACEMENT PRAC: (time and room)

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Missed Pracs and Tutorials (cont)

If you had an illness or emergency, then

If you

1. Obtain **Medical Certificate** or **Police Accident Report**
2. Fill out **Absentee Form**
3. Submit the form and documentation to the General CSSE Office

Then

Your mark will be changed from ABSENT to **SICK**

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Missed Pracs and Tutorials (cont)

- At the end of the semester:
 - SICK marks are changed to the average of your marks in the pracs you attended, **provided you attended pracs worth at least 110 marks**
 - Any missed pracs in excess of 40 marks will receive a mark of 0

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Assessment

- Mid-semester Test: *Attendance Hurdle*
 - Wednesday September 1, during the lecture
- Programming Prac Class Assessment: 30%
 - Includes an individual project (independent work)
 - Hurdle: 13 out of 30
- Final exam: 70%
 - Hurdle: 31 out of 70

Note that this is a variation from the information given in the handbook. Objections to this variation must be raised in writing to one of the lecturers by Monday, March 7, COB.

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Marks and Hurdles

- To pass CSE1301
 - Your marks must average to at least 50
 - You must pass each individual hurdle

Failure to meet a hurdle will result in a maximum mark of 44N

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Staff Consultations

- Tim Ferguson
 - Monday 2:00 pm – 4:00 pm
- Bernd Meyer
 - Wednesday 4:00 pm – 6:00 pm
- Cameron McCormack
 - Wednesday 3:00 pm – 4:00 pm

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Noticeboards

- General:
 - CSSE 1st Year noticeboard
(near Enquiries Office, Ground Floor, Bldg 75)
- WWW:
 - <http://www.csse.monash.edu.au/courseware/cse1301>
specifically
<http://www.csse.monash.edu.au/courseware/cse1301/news.html>
- Newsgroup:
 - monash.csse.cse1301

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Language and Learning Officer

- Harriet Searcy
 - Harriet.Searcy@CeLTS.monash.edu.au
 - Building 75 (room 135)
- Individual/group consultations and courses
- LLS offices, 1st Floor, Union Building
(Western extension)
- <http://www.celts.monash.edu.au/>

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Student Responsibilities regarding Lectures

- Minimize noise
 - Do not talk in lectures
 - Do not pack up early
- Minimize distractions
 - Use rear door if you arrive late or leave early
 - **Turn off your mobile phone**
- Lecture attendance
 - Catch up on missed lectures
 - Bring ID card, and produce when required

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Lecturer Responsibilities

- Prepare and deliver lectures
- Start and finish lecture on time
 - Official start: hour + 0:05
 - Official end: hour + 0:55
- Advertise:
 - Consultation hours
 - Method of assessment

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How is Uni different from school?

- Studying is your responsibility
 - You are in charge of
 - lecture, prac and tutorial attendance
 - handing in assignments
 - checking whether your marks have been recorded
- Lecturers are not “teachers”
 - Lecturers do teaching, research and admin

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Getting Help -- Computer Science Subjects

- Undergraduate Studies Officer: Ms Karen Fenwick
- First-Year Coordinator: Dr David Albrecht
- Course Coordinator: Dr Sid Ray
- Head of School (Clayton): Prof Christine Mingins

For contact details, go to CSSE Web Site or CSSE
General Office

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Getting Help -- Other

- Learning and Language Difficulties
 - Language and Learning Officer: Harriet Searcy
 - University Counseling Officer (Phone: 9905-3156)
- Your degree, enrolment or timetabling
 - Your Faculty’s student advisor
(usually in your Faculty Office)
- Problems of a confidential or personal nature
 - First-Year Coordinator: Dr David Albrecht
 - University Counseling Service (Phone 9905-3156)

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