

**Programming III
(semester 1, 2006)
LOGAN CAMPUS**

2501CIT
Original Lecture Notes by
Rene Hexel
Adapted by V. Estivill-Castro

Introduction and Coverage

- Administrative Matters
 - What? Where? When? How?
- Course Objectives
- Modules Outline
- Course Overview
 - Time Line

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Teaching Team

- Lecturer
 - V. Estivill-Castro
 - <http://www.cit.gu.edu.au/~s2130677/>
- Cross campus convener
 - René Hexel (r.hexel@griffith.edu.au)
 - Technology Building (N44) 2.32
 - Send EMail for Appointments w/ Subject: **CIT2105**
- Tutors
 - Artak Amirbekyan
 - Available in Labs and Tutorials

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Teaching

- 2 Hours of Lecture
 - Open(*) 19154 2501ICT /LG/Lec1/01
Monday 9:00 - 11:00 Logan L07 3.061-13
- 2 Hours of Labs
 - Need to enrol
 - Open 19155 2501ICT
/LG/CompLab1/01 Monday 11:00 - 13:00 Logan
L07_3.082-13

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Labs

- 2 Hours per Week
- Run in a tutorial manner
 - Get Programming Practice
 - Ask Questions!
- Part of the assignments
 - Necessary skills to complete assignments

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Assessment

- 2 non-trivial Assignments
 - Assignment 1 (20%), due: ~ week 6
 - Assignment 2 (30%), due: ~ week 11
 - Announced well in advance
 - Often appear easier than they are!
 - Use the available time!
- End of Semester Exam (50%)

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Course Resources

- **P3 Web Site**
 - <http://www.cit.gu.edu.au/teaching/2105CIT/> (2005)
 - Check Notice Board regularly
 - Read the Policies Page
- **Modules, Labs, Assessment**
 - Use Virgil to Enrol and as a Message Forum
 - Received your Password?
 - **Check your official Student EMail Account!**
- **Books, Articles, Papers**

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Course Policies

- **Uni Policies Web Site**
 - <http://www.gu.edu.au/ua/aa/ppm/index7.html>
- **Course Policies Web Site**
 - <http://www.cit.gu.edu.au/teaching/CIT2105/policies.shtml>
- **Guidelines**
 - Consultations by appointment only
 - Exceptions: **Lectures, Labs, and Tutorials**
 - Try Forum first, then your tutor
 - E-Mail answers may be broadcasted

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Policy Guidelines

- **Notice Board**
 - Important updates and changes
- **Forum**
 - for student communication
- **Web Material**
 - Made available progressively
 - Subject to change!

➤ **Check Web Pages regularly**

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Course Objectives

- Assist in
 - developing correct, efficient, robust, maintainable, and reusable software
- Broaden your programming experience
- Detailed understanding of
 - data structures, algorithms, and ADTs
 - concurrency and distributed computing

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Course Objectives (2)

- Multitasking
 - Threads, Processes
- Concurrency
 - IPC
 - Resource Sharing
- Networking
 - Client/Server concepts
 - RPC, RMI

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Text Books

- Books
 - Data structures and algorithms in C++ / Adam Drozdek.
 - Edition: 3rd ed.
 - Logan QA76.73.C153 D76 2005 1 (1 In Library)
 - Data structures using C++ / D. S. Malik.
 - Publication: Australia : Thomson Course Technology, c2003.
 - Logan QA76.73.C153 M34 2003 1 (1 In Library)
 - Data structures and program design in C++ / Robert L. Kruse, Alexander J. Ryba.
 - Publication: Upper Saddle River, N.J. : Prentice Hall, c1999.
 - Logan QA76.73.C153 K79 1999 1 (1 In Library)
 - Introduction to algorithms / Thomas H. Cormen ... [et al.].
 - Edition: 2nd ed.
 - Publication: Cambridge, Mass. : MIT Press, c2001.
 - Logan QA76.6 .I5858 2001 1 (1 In Library)
- Others
 - Resources Page on the P3 Course Web Site
 - <http://www.cit.gu.edu.au/teaching/210SCIT/resources.shtml>

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Modules Outline (Preliminary)

- C++ Programming Language Basics
 - Week 1-2
- Complexity Analysis, Algorithms and Data Structures
 - Week 3-7
- Multitasking, Concurrency, Networking, RMI
 - From Week 8

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Administrativa: That's It

Any Questions?

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