

COMP3420 Advanced Databases and Data Mining

2009-S1 Basic Course Information

1 Course Description

This course examines the design of databases and data warehouses and their use for data mining; and investigates associated issues. Topics may include: relational theory and conceptual modelling; privacy and security; statistical databases; distributed databases; data warehousing; data cleaning and integration; and data mining concepts and techniques.

2 Prerequisites

COMP1100 or COMP2720; COMP2400; 6 units of 2000-level IT courses; and 6 units of 1000-level MATH/STAT courses.

3 Lectures, Laboratories and Consultations

The course consists of thirty-hour lectures, *six* tutorials/labs (two hours each) which run together. The detailed arrangement is as follows.

Two lectures are offered per week. They are on Tuesdays and Wednesdays. The lectures are scheduled at

- 11:00am – 12:00pm on Tuesdays, BOZO B17 (Building 44)
- 10:00am – 12:00pm on Wednesdays, BOZO B17 (Building 44)

Six tut/labs will be offered for the course, which are run on Weeks 3, 5, 7, 9, 11, and 13, and there are four groups. The times for the tutorials and labs are scheduled at

- 1:00pm – 3:00pm on Tuesdays, CSIT N112 (Tutor: Weifa Liang/Peter Chriten)
- 1:00pm – 3:00pm on Wednesdays, CSIT N112 (Tutor: Nguyen Tran)
- 3:00pm – 5:00pm on Wednesdays, CSIT N112 (Tutor: Nguyen Tran)
- 5:00pm – 7:00pm on Wednesdays, CSIT N112 (Tutor: Baichen Chen)

The consulting times are as follows.

- 11:00am – 12:00pm on Mondays, CSIT N334
- 11:00am – 12:00pm on Fridays, CSIT N334

4 Textbook and Reference Books

The following text book will be used for this course:

Data Mining: Concepts and Techniques
by Jiawei Han and Micheline Kamber
Morgan Kaufmann Publishers, 2nd Edition, March 2006, ISBN 1-55860-901-6.

The following reference book is recommended for this course:

Fundamentals of Database Systems
by Elmasri and Navathe
Addison-Wesley, 5th Edition, 2007.

5 Assessment

There will be TWO assignments and ONE final exam. Following the assessment policy of departmental courses, the assessment will be based on a 40:60 weighting for assignments (A/100) and the final examination (E/100), and the final marks will be calculated by the following formula:

$$Total = 0.4A + 0.6E$$

The department's policy on plagiarism will be enforced.

6 Staff

The lecturers are Dr Weifa Liang, Dr Peter Christen and Mr Denny Denny, CSIT Building, phone: 6125-3019 (Liang), 6125-5690 (Christen), and 6125-9662 (Denny). Course email: comp3420@cs.anu.edu.au. The manager of this course is Dr Liang.