

Grande Prairie Regional College  
Department of Computer Systems Technology

Course Outline: CT 231 - Database Processing

Instructor: David Gregg  
Office/Phone: D-237/ 539-2976  
Textbook: Introduction to Database Management by Gerry Litton  
Evaluation: Assignments and quizzes: 30%  
Midterm exam: 30%  
Final exam : 40%  
Final Grade: Final percentages are converted to GPRC's nine point scale as follows:

90 - 100%	9	
80 - 89%	8	Excellent
72 - 79%	7	
65 - 71%	6	Good
57 - 64%	5	
50 - 56%	4	Pass
45 - 49%	3	Fail
26 - 44%	2	
0 - 25%	1	

Course Objectives: This course will introduce you to data processing using Database Management Systems (DBMS). You will learn to design databases using logical and physical data models. Emphasis will be placed on application development using the relational data model and the SQL language.

Assignment Policy: All assignments must be turned in--late or not--in order for you to receive a passing grade in this course. Late assignments will be accepted, but penalized by 25%.

Course Content:

Topic	Classes Required	Chapters
1) Introduction	2	1 & 2
2) Data Storage	2	3
3) Standard File Structures	2	4
4) Single-file Data Processing	2	5 & 6
5) Multi-file Data Processing	2	7
6) Logical Data Modelling	3	8 & 9
7) Relational Data Model	3	10
8) Normal Forms	3	10
9) SQL	10	11
10) Database Data Structures	2	13
11) CODASYL	4	14

**Assignments**

All of the assignments are substantial. Ample time has been allocated to complete these assignments--don't waste it. You must use modular design techniques so that you are able to break these complex assignments down into manageable pieces. Remember: it is easier to solve several small problems than one large one.

- 1) Data Storage and File Structures Due: Jan 25
- 2) File Processing Due: Feb 22
- 3) Data Modelling Due: Mar 22
- 4) SQL and CODASYL Due: Prior to Final Exam