

# Introduction

**CS3402 Database Systems**

# Course Lecturer

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# Course Syllabus

## ➤ Course Intended Learning Outcomes (CILOs)

No.	CILOs
1	Design a database schema database schema using the entity-relationship and relational data models.
2	Improve an existing database schema through the normalization process.
3	Use SQL as a Data Definition Language (DDL) and a Data Manipulation Language (DML) effectively.
4	Demonstrate good understanding of database management techniques and concepts.

## ➤ Details: <https://www.cityu.edu.hk/catalogue/ug/201819/course/CS3402.pdf>

# Assessment

- Continuous assessment: 40%
  - Participation: 5% (lecture and tutorial attendance)
  - Project/Assignment: 15%
  - Midterm: 20%
- Final examination: 60%
  - For a student to pass the course, at least 30% of the maximum mark for the examination must be obtained.

# Tentative Schedule

Week No.	Date	Topic
1	Jan 16	Introduction & ER Model
2	Jan 23	Relational Model
3	Jan 30	SQL
4	Feb 13	Relational Algebras
5	Feb 20	Constraints
6	Feb 27	Normal Forms
7	Mar 6	Mid-term
8	Mar 13	File Organization
9	Mar 20	Indexing
10	Mar 27	Transaction Management
11	Apr 3	Concurrency Control
12	Apr 10	Query Optimization
13	Apr 17	To be confirmed

# Course Materials

- Database Systems: models, languages, design, and application programming”, 6th edition, by R. Elmasri, S.B. Navathe, Pearson.
- Notations may be different in different books. Please stick to the notations used in our lecture and tutorial slides.

