Classes
- Section 1: Wednesday 9:40; Friday 10:40, 11:40 (EAZ03)
- Section 2: Tuesday 9:40; Thursday 10:40, 11:40 (EAZ03)
- Section 3: Tuesday 10:40, 11:40; Friday 9:40 (EAZ03)

Course Web Page

Instructor
- Section 1: Ercüment Çiçek (cicek@cs.bilkent.edu.tr)
  Office hours: By appointment (EA531)
- Section 2: Özgür Ulusoy (oulusoy@cs.bilkent.edu.tr)
  Office hours: Thursday 13:40 -- 15:30 (G17)
- Section 3: Çağrı Toraman (ctoraman@cs.bilkent.edu.tr)
  Office hours: Tuesday 12:40 – 14:30

Teaching Assistants
- Arif Usta, Mustafa Can Çavdar, Fuat Basık

Course Objectives
- Understand the concepts underlying the design and implementation of database systems.
- Establish a solid background in data management, with a focus on relational database management systems.
- Practice actual database design, implementation, and query formulation through a term project.

Course Outline
- Relational Data Model (Chapters 1, 2)
- Entity/Relationship Model (Chapter 7)
- Relational Algebra (Chapter 6)
- Structured Query Language, SQL (Chapters 3, 4, 5)
- Database Application Development (Chapter 9)
- Relational Database Design (Chapter 8)
- File Organization (Chapter 10)
- Tree-Structured Indexing (Chapter 11)
- Hash-Based Indexing (Chapter 11)
- Query Processing (Chapter 12)
- Query Optimization (Chapter 13)
- Overview of Transaction Management (Chapters 14, 15)

Typical Grading
- Midterm: 30%
- Final: 35%
- Project: 20%
- Homeworks & Attendance: 15%
## Text and References

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<tr>
<th></th>
<th>Required/Recommended</th>
<th>Textbook</th>
<th>Year</th>
<th>Title</th>
<th>Author(s)</th>
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<td>4</td>
<td>Recommended</td>
<td>Textbook</td>
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<td>An Introduction to Database Systems, 8th Edition</td>
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## Minimum Requirements to Qualify for the Final Exam

In order to qualify for the Final Exam, the Midterm Exam grade must be at least 30 out of 100.