



**THE OHIO STATE UNIVERSITY**  
COLLEGE OF ENGINEERING

# Introduction to Databases Using MS Access

## CSE 1114

**Credit Hours:**

1.50 - 1.50

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**Course Levels:**

Undergraduate (1000-5000 level)

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**Course Components:**

Lecture  
Lab

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**Course Description:**

Database concepts and techniques for efficient/effective data handling, computational analysis and decision support.

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**Course Goals / Objectives:**

- Be familiar with concepts of relational databases.
  - Be familiar with solving problems using MS Access Query tools including selection queries, sorts, aggregation, calculations, inner/outer joins, and situations with datasets containing many-to-many relationships using multiple queries.
  - Be familiar with using MS Access to create data tables, reports, and forms.
  - Be competent using macros.
  - Be exposed to SQL.
  - Be exposed to tools that facilitate lifelong learning of technology.
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**Course Topics:**

- Relational database management systems
  - Table Design, including primary/foreign keys, and referential data integrity
  - Table Relationships (inner and outer joins)
  - Use the query tool to find/organize information
  - Access Macros
  - SQL
  - Forms and Reports
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**Designation:**

Elective