



University Bulletin

Undergraduate Degree Programs

Information Sciences And Technology (IST)

IST 210 Organization of Data (4) Introduction to concept of databases including the storage, manipulation, evaluation, and display of data and related issues.

IST 210 Organization of Data (4)

The objective of IST 210 is to provide an introduction to the storage, retrieval, manipulation, analysis and display of information. This course includes an introduction to data structures, physical storage devices and access, database models and database management systems architectures, database analysis and design, query languages, user interface design, database administration and policy and social concerns in data management. Students will learn to use a commercial database management system and group assignments and projects, and other performance indicators. Students will be periodically assessed through examinations, individual and group assignments and projects, and other performance indicators.

This course is required of all Information Science and Technology (IST) undergraduates under both Associate and Baccalaureate degrees. It is a common course requirement and is a prerequisite for all degree options. IST 110 is the prerequisite for this course.

This course also requires student access and use of a robust commercial database management system such as Oracle, DB2, or SQLServer.

The laboratory component of the course provides a gentle introduction to boolean algebra and programming concepts (e.g., variables, arrays, and iterations) that are critical for learning database query languages. Furthermore, it provides hands-on activities and team-oriented problems that enhance the student's learning about database technologies.

General Education: None

Diversity: None

Bachelor of Arts: None

Effective: Summer 2005

Prerequisite: **IST**

[110/bulletins/bluebook/university_course_descriptions.cfm?letter=I&course=IST110](http://www.psu.edu/bulletins/bluebook/university_course_descriptions.cfm?letter=I&course=IST110)

Note : Class size, frequency of offering, and evaluation methods will vary by location and instructor. For these details check the specific course syllabus.

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