Database and Information Systems Track Objectives

Prepares students to apply database principles, algorithms, and optimization techniques to design, build, and manage current and future database and information systems.

All major required courses, all track requirements and track selectives, and their pre-requisites, regardless of department, must be completed with a grade of C or better.

Required Courses (4)

Course	Title
<u>CS 34800</u>	Information Systems
<u>CS 38100</u>	Introduction to the Analysis of Algorithms
<u>CS 44800</u>	Introduction to Relational Databases
CS 37300 or CS 47300	Data Mining and Machine Learning or Web Information Search & Management

Choose at least one course from each of the following three (3) categories. Electives

Course	Title
	Computing Systems - 1 From the Following Lis
<u>CS 35200</u>	Compilers: Principles and Practice
CS 35300	Principles of Concurrency and Parallelism
<u>CS 35400</u>	Operating Systems
	Information Assurance - 1 From the Following List
<u>CS 35500</u>	Introduction to Cryptography
<u>CS 42600</u>	Computer Security
	Related Studies - 1 From the Following List
<u>CS 37300</u>	Data Mining and Machine Learning
<u>CS 42200</u>	Computer Networks
<u>CS 47100</u>	Introduction to Artificial Intelligence
CS 47300	Web Information Search & Management
<u>CS 47800</u>	Introduction to Bioinformatics

<u>CS 48300</u>	Introduction to the Theory of Computation
CS 49000	Senior Project
or	
CS 49700	Honors Research Project
or	
EPICS 411	Honors Research Project
00/41200	

Note: Senior Project must be at least 3 credits and approved by the track chair. (Examples: EPICS 41100/41200 Senior Design, CS 49000, CS 49700 Honors Research Project)

Note: No course can be counted both for required and elective credit. This is true for all tracks.

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