CS 411  Database Systems  credit: 3 OR 4 hours.
Examination of the logical organization of databases: the entity-relationship model; the hierarchical, network, and relational data models and their languages. Functional dependencies and normal forms. Design, implementation, and optimization of query languages; security and integrity; concurrency control, and distributed database systems. 3 undergraduate hours. 3 or 4 graduate hours. Prerequisite: CS 225.

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<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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Restricted to MS: Civil Engr - Online - UIUC, MCS:Computer Sci Online -UIUC, MS:Mechanical Engineerg -UIUC, MS: Aerospace Engr-Online-UlUC, NDEG:Grad Nondegree-CE-UlUC, NDEG:Undergrad Nondeg-CE-UlUC, or MCS: Computer Sci Online-UlUC. Restricted to online non-degree, online MCS, online MSAE, online MSME, and online MSCE students. Center for Innovation in Teaching & Learning (CITL) restrictions and assessments apply, see http://www.citl.illinois.edu. For more details on this course section, please see http://engineering.illinois.edu/online/courses/. OCE Tuition $1094.00 per Bill Hour, and OCE Fees $50.00 per Bill Hour.

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Credit Hours: 3 hours

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Credit Hours: 4 hours  
Restricted to Graduate - Urbana-Champaign.