<table>
<thead>
<tr>
<th>Dept Number</th>
<th>CS 532</th>
<th>Course Title</th>
<th>Topics in Information Systems</th>
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<tr>
<td>Semester Hours</td>
<td>3</td>
<td>Course Coordinator</td>
<td>Dunren Che</td>
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<tr>
<td>Catalog Description</td>
<td>A detailed study of two or three topics relevant to information systems. Topics may include but are not limited to sorting, searching, information retrieval and automatic text processing, database security and encryption, distributed databases, and data communication.</td>
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**Textbooks**

**References**

**Course Learning Outcomes**

To provide the student with an in-depth knowledge of two or more important topics from the area of information systems. Possible topics include object-oriented systems, distributed database, knowledge-base systems, encryption, data compression, hashing, indexed files, and storage architectures.

**Assessment of the Contribution to Program Outcomes**

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<tr>
<th>Outcome</th>
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<td>Assessed</td>
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**Prerequisites by Topic**

CS 430 and consent of instructor.
1. Distributed databases
2. Object-oriented systems
3. Information retrieval and automatic text processing
4. Knowledge-base systems
5. Encryption
6. Query optimization.
7. Hashing
8. Indexed files
9. Internal sorting
10. External sorting
11. Searching
12. Data compression and coding
13. Secondary memory architecture