### Course Title
Database Systems

### Abbreviated Course Title
Database Systems

### Course Subject
CSE

### Course Number
111

### School Submitting Request
Engineering

### Division
Upper Division

### Effective Term
Fall 2016

### Discontinuance Term
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### Lower Unit Limit
4

### Upper Unit Limit

### Prerequisites
CSE 031

### Prerequisites with a Concurrent Option

### Corequisites

### Major Restrictions

### Class Level Restrictions
Principles of database design and operation. Relational data model. High-level data modeling representations. SQL database language. Active databases with constraints and triggers. Query optimization with views and indexes. Exploiting database servers within programming languages for web application development. Other topics include transaction processing and recovery, user-defined functions, and data warehousing.

### TIE Code
T: Lecture plus Supplementary Activity

### Reasons for Request
Other

### Brief Explanation of Change(s)
Part of the wholesale CSE curriculum changes approved for FA’16 Lab hours changed from 4 to 3 to normalize with other CSE courses.

### Total Contact/Non-contact Hours Per Week
- Lecture: 3 contact, 3 non-contact
- Lab: 3 contact, 3 non-contact
- Seminar: 0 contact, 0 non-contact
- Discussion: 0 contact, 0 non-contact
- Tutorial: 0 contact, 0 non-contact
- Field: 0 contact, 0 non-contact
- Studio: 0 contact, 0 non-contact

### Total Hours Per Week
12

### Grading Options
Letter Grade Only

### In Progress Grading

### Maximum Enrollment
500
<table>
<thead>
<tr>
<th>Maximum Enrollment Reason</th>
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<tbody>
<tr>
<td>Cross-listing</td>
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<tr>
<td>Conjoined</td>
<td></td>
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<tr>
<td>Cross-listed Schools</td>
<td>----</td>
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<tr>
<td>Can this course be repeated?</td>
<td>No</td>
</tr>
<tr>
<td>How many times?</td>
<td></td>
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<tr>
<td>Resource Requirements</td>
<td>TA</td>
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<tr>
<td>Does this satisfy a General Education Requirement?</td>
<td>No</td>
</tr>
<tr>
<td>Course Outline and/or Additional Documentation</td>
<td><a href="CSE111.pdf">CSE111.pdf (94Kb)</a></td>
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