Mathematics

MATH 587  **Optimization by Vector Methods**  credit: 4 hours.
Introduction to normed, Banach, and Hilbert spaces; applications of the projection theorem and the Hahn-Banach Theorem to problems of minimum norm, least squares estimation, mathematical programming, and optimal control; the Kuhn-Tucker Theorem and Pontryagin's maximum principle; and introduction to iterative methods. Same as ECE 580. Prerequisite: MATH 415 or MATH 482, and MATH 447 or consent of instructor.

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<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>33574</td>
<td>Lecture-Discussion</td>
<td>N</td>
<td>11:00 AM - 12:20 PM</td>
<td>MW</td>
<td>260 - Mechanical Engineering Bldg</td>
<td>Basar, M</td>
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