Mathematics

MATH 415  Applied Linear Algebra  credit: 3 OR 4 hours.
Introductory course emphasizing techniques of linear algebra with applications to engineering; topics include matrix operations, determinants, linear equations, vector spaces, linear transformations, eigenvalues, and eigenvectors, inner products and norms, orthogonality, equilibrium, and linear dynamical systems. 4 hours of credit requires approval of the instructor and department with completion of additional work of substance. Credit is not given for both MATH 415 and any of MATH 125, MATH 225, or MATH 410. Prerequisite: MATH 241 or consent of instructor.

This course satisfies the General Education Criteria for a:
Quantitative Reasoning II

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<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
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Credit Hours: 3 hours
Quant Reasoning II course.
Restricted to Computer Engineering or Computer Science or Electrical Engineering or Engineering Mechanics or Engineering Physics or Industrial Engineering or Mechanical Engineering or Physics or Chemical Engineering or Statistics or Mathematics or Statistics & Computer Science or Math & Computer Science major(s).

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Credit Hours: 4 hours
Quant Reasoning II course.
Instructor Approval Required
Restricted to Graduate - Urbana-Champaign.

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