

**COURSE ANNOUNCEMENT**  
**TOPICS IN ADVANCED MATHEMATICS --**  
**COOPERATIVE GAME THEORY**  
**MATH 780**

Fall Semester 2007  
MW 2:30-3:45 PM  
638 Ansari Business Bldg

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Math 780 will be an advanced theoretical course in cooperative game theory. We will begin by studying some of the “classical” topics in the subject, such as normalizations, balancedness, convex games, market games, and the Shapley Value. The last half of the course will be devoted to the theory of matching games.

Prerequisites: Either a) MATH 486/686, b) APEC 710 and MATH 330, c) graduate standing in mathematics, or else d) permission of the instructor. Although not required, familiarity with the theory of linear programming would be a plus.

**Text:** There will be a “book” consisting of copies of research articles that we will cover in class. This will be available at the bookstore.

Coming Spring 2008: MATH 487/687 Deterministic Operations Research