Prof.: David Nassimi  
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Course Description: Architectures and algorithms for parallel computers. Interconnection networks, data routing algorithms, and various communication operations. Design of communication-efficient parallel algorithms for a variety of problems, including: prefix computation, matrix problems, parallel sorting, sorting networks, and graph algorithms.

Prereq: CIS 610 (algorithms)  
       CIS 650 (architectures).

Textbook: Ananth Grama, Anshul Gupta, George Karypis, and Vipin Kumar,  
ISBN: 0-201-64865-2

Additional Reference Books

   (ISBN 0-07-282256-2)

   (ISBN 1-55860-117-1)

   (ISBN 0-201-54856-9)

4. Russ Miller and Quentin Stout, Parallel Algorithms for Regular Architectures: Meshes and Pyramids,  


Evaluation (tentative):

Homeworks 75%  
Final (Take-Home) 25%