**CS 514 --- ADVANCED OPERATING SYSTEMS**  
Spring 2016

**Instructor:** Professor Bidyut Gupta  
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**Course Objective:** To study algorithms arising in the design of computer operating systems and to work out analysis whose goals are proofs of optimality and derivation of performance measures.

HANDOUTS REGARDING COURSE MATERIALS WILL BE GIVEN IN THE CLASS.

**GRADING:** There will be two tests; each will carry 25% of the total points. Third test will carry 30%. One term paper with 20% must be submitted by each student.
*Note: These percentages are all tentative. There may be significant changes.*

The following grading scale will be strictly observed:

Grade A: $\geq 90\%$
Grade B: $\geq 80\%$ and $< 90\%$
Grade C: $\geq 70\%$ and $< 80\%$
Grade D: $\geq 60\%$ and $< 70\%$

**TENTATIVE COURSE OUTLINE:**

1. Concurrent Processing  
2. Processor Scheduling  
3. Memory Management  
4. Distributed operating systems  
5. Fault-Tolerance in Distributed/Mobile Computing Environment