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course_title: Introduction to Analysis of Algorithms
course_code: CS 4820/5820
semester: Spring 2022
instructor:
   name: Eshan Chattopadhyay
   office: Gates Hall 319
   email: eshan@cs.cornell.edu
   office_hours:
     day: Monday
      time: 10:30am-11:30am
     day: Thursday
      time: 1:30pm-2:30pm
lectures:
  days:
     Monday
     Wednesday
     Friday
   time: 9:05am-9:55am
   location: Uris Hall G01
course_description: This course develops techniques used in the design and analysis of algorithms, with an
emphasis on problems arising in computing applications. Example applications are drawn from systems and
networks, artificial intelligence, computer vision, data mining, and computational biology.
learning_objectives:
   Identify problems solvable with different algorithm design techniques
   Analyze computational efficiency of algorithms
  Recognize computationally intractable problems
   Apply algorithmic techniques for intractable problems
  Understand and implement famous algorithms
   Write proofs and analyze algorithmic runtime
textbooks:
   Algorithm Design by Jon Kleinberg and Eva Tardos
   Introduction to Algorithms by T. Cormen, C. Leiserson, R. Rivest
   Algorithms by S. Dasgupta, C. Papadimitriou, U. Vazirani
prerequisites:
  CS 2800
  CS 2110
  CS 3110
grading:
   components:
     component: homework
      weight: 35%
     component: participation
      weight: 5%
     component: prelim 1
      weight: 15%
     component: prelim 2
      weight: 15%
     component: final exam
      weight: 30%
collaboration policy: Collaboration is allowed on problem-solving ideas but solutions must be written up
independently and acknowledge collaboration.
late_submissions_policy:
  late_days_allowed: 6
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penalty_structure:

late_submission_hours: 0-12

penalty: 20%

late_submission_hours: 12-48 **penalty:** additional 20%

exceptions: Grades from a late submission count only if you have late days left.

academic_integrity_policy:

collaboration_guidelines: Collaborate on ideas, write up solutions independently, acknowledge collaborators. admissible_resources: Only course materials and discussions allowed, no external resources permitted. additional_information:

typesetting_requirements: Homework must be typeset and submitted as PDF.

inclusiveness_statement: Respectful communication and inclusive behavior are expected from all

participants.

accommodations_policy: Students with disabilities should request accommodations within the first three weeks of the semester.