
Contact Information

INSTRUCTOR: Alex Gerbessiotis
OFFICE: GITC 4213, 4th floor
OFFICE HOURS: Tue and Thu 4:30-5:30pm, Tue 11:30-13:00
OFFICE HOURS: By appointment some other time on Tue,Wed,Thurs
ASSISTANT: TBA on course web-page
CLASS HOURS: Thu 6-9:05pm, GITC 5601
COURSE WEB PAGE: Generic one is:

E-MAIL: alg667@cs.njit.edu
E-MAIL: alg467@cs.njit.edu
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<http://www.cs.njit.edu/~alexg/courses/cisx67/index.html>

The following two URLs point to the previous one.

<http://www.cs.njit.edu/~alexg/courses/cis467h/index.html>

<http://www.cs.njit.edu/~alexg/courses/cis667/index.html>

Print Handout 1 from this site and compare the printout to this document. They must be identical. If they are not, adjust your printer.

Course Administration

Prerequisites CIS 610 (for CIS 667) or CIS 435 (for CIS 467h).
Textbook T.C.Cormen, C.E.Leiserson, R.L.Rivest, and C. Stein. "Introduction to Algorithms", second edition, McGraw-Hill. *We abbreviate in class this second edition as CLRS.*
Other R. Motwani and P. Raghavan. "Randomized Algorithms", Cambridge University Press.
HW1-5 Each homework is worth 100 points; you can collect a total for 500 points from the homeworks. Programming problems related to the material covered in class will be given; you can substitute points gained from programming for regular points. Bonus points can also be gained.
Grading scheme: 500 points is the target maximum.
CIS 467H Honors undergraduate students will be evaluated separately.
Exams There are no exams.
Extra Work Bonus points and programming assignments can be used.
Due Dates Written homeworks are due by the beginning of a class. Programs **MUST be received by email by midnight the same day.**

Brief Course Description.

Sequential and parallel algorithms for numerical and combinatorial problems will be discussed. The use of randomization in the solution of algorithmic problems will be explored. Applications to be considered will include string matching, polynomials and FFT algorithms, sorting networks, algebraic computations and primality testing and factoring, matrix operations, randomized algorithms for sorting and selection, and data compression. ■