
Professor Anders Linnér
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Office: Watson 363
Office Hours: W: 10-10:50, Th, F: 1-1:50, (or by appointment.)

Attendance: Attendance is mandatory. Exceptions require documentation and a valid excuse such as illness. Each undocumented absence beyond three will lower your grade one level.

Grading: Out of 600 points (F:200, Ex1:100, Ex2:100, Q+HW:200); A510, B 450, C 390, D 330

Important dates:
Last day to withdraw is 10/16/2009.
Final Exam: Monday December 7, Noon-1:50 p.m.

ACADEMIC MISCONDUCT: Please read the statement on Academic Integrity which appears in the Undergraduate Catalog, and which includes this passage: "Students guilty of, or assisting others in, either cheating or plagiarism, on any assignments, quizzes, or examinations, will receive a grade of F for the course involved and may be suspended or dismissed from the University."

• Cell phones must be silent and not used during class or exams.
• Children are not permitted in class.
• You are expected to arrive and depart class on time.

Failure to abide by the following will result in a zero score!

• PDA's and cell phones shall be stowed and not be visible during exams.
• Talking or other communication between students is not permitted during exams.

DISABILITIES: NIU abides by Section 504 of the Rehabilitation Act of 1973 which mandates reasonable accommodations be provided for qualified students with disabilities. If you have a disability and may require some type of instructional and/or examination accommodation, you will need to register with the Center for Access-Ability Resources (CAAR), the designated office on campus to provide services and administer exams with accommodations for students with disabilities. The CAAR office is located on the 4th floor of the University Health Services building (815 753-1303).
Please contact your instructor early in the semester so that we can provide or facilitate in providing accommodations you may need.

Schedule:

WEEK 1
Mon. 08/24 PERT
Wed. 08/26 matching
Thu. 08/27 knapsack
Fri. 08/28 efficiency of algorithms 10;9;8;7

WEEK 2
Mon. 08/31 set operations
Wed. 09/02 equivalence relations
Thu. 09/03 partial ordering relations
Fri. 09/04 functions 24;21;18;15

WEEK 3
Mon. 09/07 no class (Labor Day)
Wed. 09/09 mathematical induction
Thu. 09/10 applications
Fri. 09/11 congruence 34;30;26;22

WEEK 4
Mon. 09/14 Euclidean algorithm
Wed. 09/16 RSA
Thu. 09/17 error detection/correction
Fri. 09/18 matrix codes 48;42;36;31
WEEK 5
Mon.  09/21 single digit errors
Wed.  09/23 representations of graphs
Thu.   09/24 paths/circuits
Fri.   09/25 shortest paths 61;54;47;40

WEEK 6
Mon.  09/28 coloring
Wed.  09/30 directed graphs/multigraphs
Thu.   10/01 properties of trees
Fri.   10/02 spanning trees 75;66;57;48

WEEK 7
Mon.  10/05 depth-first search
Wed.  10/07 rooted trees
Thu.   10/08 binary trees/traversals
Fri.   10/09 optimal binary trees 88;78;68;57

WEEK 8
Mon.  10/12 Exam 1
Wed.   10/14 distinct representatives
Thu.   10/15 matchings in graphs
Fri.   10/16 algorithm 184;162;140;119

WEEK 9
Mon.  10/19 application
Wed.  10/21 Hungarian method
Thu.   10/22 flows and cuts
Fri.   10/23 augmentation 197;174;151;128

WEEK 10
Mon.  10/26 max-flow/min-cut

WEEK 11
Mon.  11/02 arrangements
Wed.  11/04 probability
Thu.   11/05 inclusion/exclusion
Fri.   11/06 generating 224;198;172;145

WEEK 12
Mon.  11/09 recurrence
Wed.  11/11 iteration
Thu.   11/12 linear difference equations
Fri.   11/13 analyzing efficiency 238;210;182;154

WEEK 13
Mon.  11/16 generating functions
Wed.  11/18 algebra of generating functions
Thu.   11/19 Exam 2
Fri.   11/20 logical gates 333;294;255;216

WEEK 14
Mon.  11/23 creating combinatorial circuits
Wed.  11/25 no class (Thanksgiving break)
Thu.  11/26 no class (Thanksgiving Day)
Fri.  11/27 no class (Thanksgiving break)

WEEK 15
Mon.  11/30 Karnaugh maps
Wed.  12/02 finite state machines
Thu.  12/03 review
Fri.  12/04 review 343;303;263;222

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