CS 111

INTRODUCTION TO COMPUTATIONAL SCIENCE

OCTOBER, 2020

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ME: John Gilbert TAs: Luis Angel Timeng Juzing READER: Zihao CONTACT IN FOX OFCHRS AND PRAZZA: Use if a lot 1/1 AND GRADESCOPE

COURSE LUGISTICS - LIVE 200M LECTURES THU 1230 posted after class - PRERECORDED VIDEO SEGMENTS forTUE beforeclasistime - SECTIONS THURSDAY PM CNO SECTION TODAS) 9 Homeworks (Monday - Sunday) coe Est 2 grades DROPPED (may working) _ 50% of course grade (1 parties) TQuizzes (24 lev Mon-Tue noon) Lowest 2 PROP (not this Mon) 50% of cources and a (not this Mon) No midterms or tival exams READ GSPACE FOR DETAILS ANDRULES

SOFTWARE ETC -D Python, numpy, scipy, matplotlis - Dupyter notebooks TAS WILL SHOW YOU HOW TO SETUP IN FIRST SECTION CREXT THAN - mostly not anajor codsing - passally one fair-sized program the READING -Assigned everyweek InfoRTANT - Lots of on line readings, Many NCM Gook by Moler. Cuses matrak out Python)

NO SECTIONS TODAY MO QUIZ MONDAY FIRST HW ON MONDAY WATCHVIDEDS ON TUE READ NCM Z-1-2,6 Clicheau graf Gaussian elinide

WHAT'S THE COURSE ABOUT! ALGORITHMS FOR THE PROBLEMS OF CONTINUOUS MATHEMATICS CS130AB: ALGS FOR DISCRETE - MATHEMATICS. SORTING CIAKED LISTS MREES GRES AKALYZE RUNTIME O (alogu)et CSIFF ALGS FOR COMPUTING WOTH REAL NaMBERS: PIFF. EQNS, PROBABILITY DATA. (FLOATING POINT ARITHMETIC) ANALYZE BOTH RUN TIME AND ACCURACY 1

PHYSICAL MODELING DATABRACES differential egn physics CEARACOCC LINEAR XSCRETTLE_ (ina gentins,

TEMPERATURE PRIBLEM

RISCRETIEE

KXK gurd

Or prints X:

G° (00° 0° N=k²

Nysics:

temp at a point

is the arraye

Xin Xink Physics: temp at a point is the array e of the femps Xi= of Xi-k+Xit Xit at neighborry

-x;-12-X;-174x;-X;F1-X;FC=0 Angerfac i=0 i=n-(-(k-1) negns
in unfnanns
Oficen-[] Ax=6