cs3186: INTRODUCTION TO THE THEORY OF AUTOMATA

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       “cs3186 - Subject”

Pre-requisites: Discrete Math. & a Programming Language.

Textbook:
Other textbooks: Michael Sipser’s “Intro. to the theory of Computation”,
John Martin’s “Intro. to Languages and the Theory of Computation”,
Hopcroft&Motwani&Ullman’s “Intro. to Automata Theory, Languages and Computation”,
Lewis&Papadimitriou’s “Elements of the Theory of Computation”, etc.

Major Themes:
Introduction: Ch 1: only Section 1.2.
Finite Automata & Regular Languages: Chs. 2-4.
Context Free languages & Pushdown Automata: Chs. 5 & 7 & 8.
(Possibly Ch 6: only 6.2)
Turing Machines: Chapter 9
NOTES: We may not cover the material exactly as in the textbook chapters. However, I will give you class notes.
Grading (the best class grade is equivalent to 100%)

1st (Midterm) Exam: 1.5 hr. (TBA) 25%
2nd (Midterm) Exam: 1.5 hr. (TBA) 25%
Final Exam: 2 hours (TTh at 6:00pm: 5/17 @ 5-7pm) 50%
Final Exam: 2 hours (TTh at 7:25pm: 5/15 @ 7:30pm) 50%

Grading Curve (~Highest Class Grade is 100%):

A : 90% or better
A- : 80% or better
B+ : 70% or better
B  : 60% or better
B- : 50% or better
C+ : 45% or better
F  : below 45%

CLASS SCHEDULE:
Spring classes begin: January 22nd (Automata first class is on 1/23/18)
Spring Recess - no classes 3/26 - 4/1 (no class on 3/27 and 3/29)
Class end on 5/12 (the last class takes place on 5/10)
Finals from 5/14 - 5/19.