cs3186: INTRODUCTION TO THE THEORY OF AUTOMATA

Instructor: Dr. Jose Macias (call me José)
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Office Hours: Make an Appt via email or call me/leave a msg.
Need to make an appointment, otherwise I will not be there.
By Appt. call me or send me an email. I am at CSULA every
evening from Monday thru Saturday. Hours after class are
open as needed.

e-mail: josemasia@gmail.com

Email Heading: Your email subject line SHALL include
“cs3186-(Meeting days) TTh or Fri-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 (Best class grade is equivalent to 100%)**

1\(^{st}\) (Midterm) Exam: 1.5 hr. (TBA) 15%
2\(^{nd}\) (Midterm) Exam: 1.5 hr. (TBA) 15%
3\(^{rd}\) (Midterm) Exam: 1.5 hr. (TBA) 15%
Final Exam: 2 hours (Dec TBA) 55%

**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%