

Wagner College
CS/MA 325 – THEORY OF COMPUTATION

TEXTBOOK: *Theory of Computing. A Gentle Introduction*,
By Kinber and Smith, Prentice Hall (required)
Introduction to Automata Theory, Languages and Computation,
By Hopcroft, Motwani, and Ullman, Addison Wesley (strongly suggested)

INSTRUCTOR: Dr. Adrian Ionescu <http://www.wagner.edu/faculty/users/ionescu/>

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OFFICE: Room 117, Megerle Science Hall, x3245

OFFICE HOURS: MW 09:20 – 10:20 AM (by appointment only)
TTH 09:20 – 11:20 AM

COURSE WEB PAGE: <http://ionescu.pageout.net/>

COURSE OBJECTIVES: This course covers the mathematical foundations of computer science. Formal languages are introduced, e.g., regular languages, context-free languages, context-sensitive languages, etc. Associated automata are also studied, e.g., finite automata, pushdown automata, and linear-bound Turing machines.

OUTLINE: Chapter 1 – Introduction
Chapter 2 – Finite Automata
Chapter 3 – Context-Free Languages
Chapter 4 – Turing Machines
Chapter 5 – Undecidability
Chapter 6 – Computational Complexity

GRADING POLICY: You are responsible for all material covered in class, as well as that in the text. Homework will be collected and graded weekly.

- MIDTERM (30%)
- FINAL EXAMINATION (40%)
- HOMEWORK/PROJECTS/CLASS PARTICIPATION (30%)

GRADING SCALE: Letter grades will be determined by the following scale, where 100 corresponds to the highest point total earned by any student in the class:

Average	Grade
93 - 100	A
90 - 92	A-
87 - 89	B+
83 - 86	B
80 - 82	B-
77 - 79	C+
73 - 76	C
70 - 72	C-
67 - 69	D+
60 - 66	D
< 60	F

COURSE POLICIES:

- There will be no make-up examinations. *A student who is unable to attend a major examination due to illness or other emergency is required to contact his instructor within 24 hours of the exam time.* If an exam is missed due to an emergency, the final will be counted twice; once as a final, and once in place of the missed exam. Late homework will not be graded.
- Any preceding policies may be waived at my discretion

For inclement weather updates or other announcements please check your e-mail and the following page regularly: <http://www.wagner.edu/faculty/users/ionescu/notes.htm>.

If you have a disability for which you may be requesting an accommodation, you are encouraged to contact both your instructor and Dina Assante in the Academic Advisement Center, 390-3278 as early as possible in the term.