FORDHAM UNIVERSITY / GRADUATE SCHOOL OF ARTS AND SCIENCES
DEPARTMENT OF COMPUTER AND INFORMATION SCIENCES
SYLLABUS

Semester: Spring, 2019
Course Number: CISC 5200
Course Title: Computer Language Theory
Faculty: Dr. A. G. Werschulz
  Office: Rm LL 610D
  Phone: (212) 636-6325
  E-mail: agw@dsm.fordham.edu
  WWW: http://www.dsm.fordham.edu/~agw/cdt
  Office Hours: Mondays: 11:30 a.m.– 12:30 p.m.
               4:00 p.m.– 5:25 p.m.
               Thursdays: 11:30 a.m.– 12:30 p.m.
               (or by appointment)

Class email list: clt@dsm.fordham.edu

Course Outline (Topical):
  Introduction
  Automata and languages
     Regular languages
     Context-free languages
  Computability theory
     The Church-Turing thesis
     Decidability
  Complexity theory
     Time complexity

Protocol:
Examinations: There will be one midterm examination, which will be on Monday, February 25; it will
take up the first part of the regular exam period. The final examination will be on Monday, May 13, taking
up the entire class period. Both exams will take place during the usual class period, in the usual location.

Homeworks: I hope to assign homework problems on a weekly basis. Each assignment will be posted
on the class website. These assignments will be due in the class session following the one in which they
were assigned. I will return your papers in the next class session, along with a complete set of solutions.

Your homework solutions will generally have a lot of mathematical notation. The class website has
suggestions on how preparing your homework solution papers.

Attendance: Learning is an interactive process that begins in the classroom, continues at home, and
picks up back in the classroom. Attendance is necessary to accomplish the objectives of this course. You
are limited to two excused absences. If you wish an absence to be excused for anything other than a true
emergency, you must contact me before class (phone or email); in case of an emergency, you will need to
contact me as soon as possible. Additional absences or unexcused absences will result in a marked decrease
in your final grade.

Grading:
  homework  50%
  midterm exam  25%
**final exam**  25%

**Other Requirements:** None.

**Readings:** We hope to cover Chapters 0, 1, 2, 3, 4, and 7 of the text. There may also be additional handouts on material not covered in the text.

**Academic Integrity:** To begin with, you should familiarize yourself with the University’s policy on Academic Integrity, which may be found at [http://www.fordham.edu/info/25380/undergraduate_academic_integrity_policy](http://www.fordham.edu/info/25380/undergraduate_academic_integrity_policy)

Pay special attention to the Standards of Academic Integrity. As a corollary to same, you are not to pass off someone else’s solution to any homework exercise as your own, regardless of whether you obtained it from a fellow student, an acquaintance, or from the Web. Analogously, you should take all reasonable necessary steps to prevent other people from stealing your work; in particular, when you create a file on the Departmental Linux systems at Lincoln Center, it should be located in (an appropriate subdirectory of) your private directory.

You will sometimes find yourself stumped by some phase of an assignment. When this happens, you have several options, such as asking a question in class, sending me email, or discussing the problem with me in my office. It would be unrealistic of me to not expect a certain amount of discussion of assignments. However, the work you turn in is to be your own work. If you are in doubt as to the legitimacy of your actions, ask me beforehand.

**Additional Remarks:**

There will be no make-up exams given after the exam date. If you know in advance that you will have to miss an exam, you must check with me (in advance) to avoid getting a zero for that exam. In case of illness on an exam date, please contact me as soon as possible, so that appropriate arrangements can be made.

If you believe that you have a disabling condition that may interfere with your ability to participate in the activities, coursework, or assessment of the object of this course, you may be entitled to accommodations. If so, please schedule an appointment to speak with me immediately or you may go to the Office of Disability Services (LL207, x6282). Under the Americans with Disabilities Act and Section 504 of the Vocational Rehabilitation Act of 1973, all students, with or without disabilities, are entitled to equal access to the programs and activities of Fordham University.