COMP 506, Spring 2019
Compiler Construction for Graduate Students

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Course Objectives: Students in COMP 506 will develop a fundamental understanding of program analysis, translation, and code generation. The course assumes a working familiarity with scanning and parsing; those topics will be covered as review material. <u>COMP 506 and COMP 412 are mutually exclusive; a student may only receive credit for one of them</u>.

The programming assignments in COMP 506 will help students develop skills in the translation, analysis, and transformation of programs, represented in an abstract form.

On exams, students are responsible for the contents of both the book and the lectures.

Assignments &
Grading Policies: The course will have two exams. It will have, depending on how the class progresses, two or three programming assignments, or "labs". Each programming assignment has a detailed handout that describes the assignment in depth.

Exam Points will be assigned as follows. Each of the exams is worth 25% of the final grade, for a total of 50% on exams. The programming assignments will also total 50%, with equal weight. Thus, three labs would have weights of 16.666% each; two labs would have weights of 25% each.

Exams are given under the Rice Honor Code. Students are encouraged to discuss the programming assignments with each other. However, <u>each student must design write all of the code that they submit for each lab</u>, other than standard libraries and instructor-supplied material.

White-board discussions between students about the algorithms and techniques needed for the labs are permitted. Any forms of code sharing (including looking at each other's code) are not.

Textbook: Material will be drawn from *Engineering a Compiler, 2nd Edition,* by Cooper and Torczon, as well as technical papers available from the ACM Digital Library (free from the Rice Owls wireless network) or the course web site. Copies of the book will be on reserve in Fondren Library.

Discussion Site: We will be using Piazza to handle questions about assignments, tests, and general class discussion. If you did not receive an email invitation to Piazza, send email to the instructor.

Course Web Site: https://www.clear.rice.edu/comp506

Lecture notes, handouts for the programming assignments, and announcements will be posted to the web site. Any changes to policies will be posted on the course web site and on Piazza.

Notice: Any student with a disability requiring accommodations in this class should contact the instructor or Rice's Coordinator for Disability Support Services, Alan Reynolds.