



COMP 506, Spring 2020 Compiler Construction for Graduate Students

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Course Objectives: Students in COMP 506 will develop a fundamental understanding of scanning, parsing, translation, program analysis and code generation. COMP 506 and COMP 412 are mutually exclusive; a student may only receive credit for one of them.

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 two 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% for exams. The programming assignments will also total 50%, each lab having a weights of 25%.

Exams are given under the Rice Honor Code. Students are encouraged to discuss the programming assignments with each other. However, each student must design and write all of the code that they submit for each lab, 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 form of code sharing (including looking at each other’s code) are not.

Textbook: Material will primarily be drawn from *Engineering a Compiler, 2nd Edition*, by Cooper and Torczon, and secondarily from *Compilers: Principles, Techniques, and Tools, 2nd edition* by Aho, Lam, Sethi and Ullman.

Discussion Site: We will be using Piazza to handle questions about assignments, exams, and general class discussion. You will access Piazza through Canvas.

Course Web Sites: <https://www.clear.rice.edu/comp506> and Canvas (<https://canvas.rice.edu/courses/30118>).

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

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