Fall 2011 **COP3402** **HUGHES**

SYLLABUS

Instructor: **Dr. Charles E. Hughes**
Office: HEC247C; charles.e.hughes@knights.ucf.edu; Use Subject COP3402
Class: **MW 7:30pm – 8:45pm**
Office Hours: **MW 9:45AM-10:45AM; M 5:30-6:30; and by appointment**
GTA hours: **Steven Zittrower**, steven.zittrower@gmail.com, HEC-250; Thursday 3:00 to 5:00
Wenhui Li, liwenhui6328@hotmail.com, HEC-254; Tuesday 4:00 to 5:00

Texts: *Compilers: Principles, Techniques, & Tools*, 2nd Edition by Alfred V. Aho, Monica S. Lam, Ravi Sethi, Jeffrey D. Ullman
ISBN-10: 0321486811 | ISBN-13: 9780321486813

Rules to Abide by

Do Your Own Work

- When you turn in an assignment, you are implicitly telling me that these are the fruits of your labor. Do not copy anyone else's homework or let anyone else copy yours. In contrast, working together to understand lecture material and solutions to problems not posed as assignments is encouraged. Cheating on an assignment will result in an F on that assignment for the first infraction and an F for the course on the second. This can also lead to administrative action at the university level.

Late Assignments

- Each assignment will have a due date and 10% will be subtracted for each day late (up to 2 days late, 20% off; more than two days late results in no credit)

Exams

- No communication during exams, except with me or a designated proctor, will be tolerated. A single offense will lead to termination of your participation in the class, the assignment of a failing grade and probable administrative action at the university level. (See http://z.ucf.edu)
- Exams can only be made up under extreme extenuating circumstances. Traffic and malfunctioning alarm clocks are not valid excuses. If you miss an exam, you are responsible for contacting the instructor immediately. If you have not contacted the instructor within one day of the exam, you cannot make it up even if you had a legitimate reason for missing the exam, unless the circumstances preventing you from taking the exam also caused you to be unable to contact the instructor.
- I don't do extra credits unless I do them for the whole class and that is very, very rare.

Important Dates: Labor Day -- September 5; Midterm Exam -- October 10 (Tentative); Withdraw Deadline -- October 27; Final -- December 7, 7:00PM-9:50PM

Assignments: 5 to 8, one of which is the major project. Each assignment will have a due date and 10% will be subtracted for each day late (up to 2 days late, 20% off; more than two days late results in no credit)

Exams: One midterm and a final

Material: I will draw heavily from text by Aho, Lam, Sethi and Ullman. You are responsible for material discussed in notes and in in-class discussions. Not all of this is addressed in text. I highly recommend attending class, interacting with me and listening very carefully when I say a topic is important to me; hint, hint about exam questions ;-)

Grading Policy:

- Mid Term -- 20%
- Final Exam -- 30%
- Programming and Other Assignments – 20-25%
- Final Programming Project – 20-25%
- Wild Card -- 5% (used to increase weight of what you did well on)
- Grading will be A >= 90%, B+ >= 87%, B >= 80%, C+ >= 77%, C >= 70%, D >= 60%, F < 60%.(minuses may be used)

Attendance: I do not take attendance but I expect it, and I expect you to arrive on lime. If people begin arriving late or missing class as a matter of habit, I will begin taking attendance or having unannounced quizzes. If you have legitimate reasons for arriving late or leaving early, please inform me ahead of time, and please enter or leave the classroom as unobtrusively as reasonable.

Expected Outcomes

- You will gain a solid understanding of various types of systems software (purpose, challenges, theoretical framework, various options for implementation).
- You will have a strong sense of the computational bounds that drive various strategies and compromises.
- You will hone your skills as software designers and programmers.
- You will (hopefully) come away with stronger formal proof skills and a better appreciation of the importance of discrete mathematics to all aspects of CS.
- You will have a solid understanding of the phases of compiler up through optimization of intermediate code.

A detailed syllabus with weekly goals is at http://www.cs.ucf.edu/courses/cop3402/fall2011/
A course Wiki will be set-up. Help sessions will be scheduled before exams and at major project times.