

## CS 480: Translator

Winter 2017

### DESCRIPTION

This class is an introduction to the operation and the design of a compiler. This class will cover the major stages of a compiler with an emphasis on scanning and parsing algorithms. The major component of the class will be a project to create a compiler for the C Minus language. More information about the project will be given in a separate handout. *Prerequisites: CS 311 or CS 344 and CS 321*

### CREDIT

4 credits

### INSTRUCTOR

Bob Broeg, Ph. D.

Office KEC 1091

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### OFFICE HOURS

M-F: 10:00 - 11:00  
and by appointment

class website: [engr.oregonstate.edu/~broegr](http://engr.oregonstate.edu/~broegr)

### CLASS TIMES

MWF 12:00 - 12:50 (CRN) 30819 KIDD 350

### TEXTBOOK

Compiler Construction, Principles and Practice. Kenneth C. Louden.  
PWS Publishing Company, 1997, ISBN: 0-534-93972-4.

### GRADING

The grade for this class will consist of written assignments from the textbook, a compiler project, a midterm exam, and a comprehensive final exam. The following grading scale and distribution will be used.

	100% - 92%	A	91% - 90%	A-	
89% - 88%	B+	87% - 82%	B	81% - 80%	B-
79% - 78%	C+	77% - 72%	C	71% - 70%	C-
69% - 68%	D+	67% - 62%	D	61% - 60%	D-
	59% - 0%	F			
40%	Compiler Project				
15%	Written Assignments				
15%	Midterm, tentatively scheduled for the fifth week.				
30%	Final				

### EXAMS

There will be a midterm exam tentatively scheduled for the fifth week of the quarter, and there will be a comprehensive final exam at the scheduled time. Please see the final exam schedule on the registrar's web. All exams are closed book and closed notes, but you will receive a study guide for each exam.

### EXERCISES

There will be periodic written exercises given from the textbook. The due date for the exercise will be announced when it is given. Exercises are to be done using a wordprocessor, and spelling and grammar will be considered as part of the grade.

## PROJECT

There will be a separate handout describing the compiler project.

## ACADEMIC DISHONESTY

Academic dishonesty refers to cheating: a serious ethical issue. You are encouraged to work cooperatively with other students in the class. However, each student is expected to do his or her own assignments. **Written work that appears to be copies of each other will not be given credit. Helping, or being help by, another student or the appearance of helping, or being helped by, another student during a quiz or an exam will be considered academic dishonesty. This will be grounds for a zero on the quiz or the exam.**

## NOTES

- ~~It is the policy of the Computer Science department that you must receive a passing grade on the final exam (60% or higher) in order to pass the class.~~
- Late assignments will be given half credit. This means that the assignment is graded normally, and the result is multiplied by 50%. This is the grade that is recorded. There will be a two week maximum for handing in late work.
- There will be a web page with copies of assignments, answer keys, current grades, and class announcements. The link to this page will be on my home page. Please check this class web page frequently.
- A student who is participating in an official college activity—for example, a member of an athletic team or a member of a performing arts organization—may have an exception made to a deadline with a signed, written request from the sponsoring organization before the deadline. For example, a student on an athletic team may turn in a late lab because of a game provided he or she submits a written request, signed by a coach, before the original deadline. It is the student's responsibility to obtain the written request.
- Student work that has not been returned will be kept for one quarter. Unclaimed work from this quarter will be disposed of at the end of Spring quarter, 2017.
- Please save any graded papers until after you receive your report card. In the event of a grade discrepancy, your copy of a graded paper is your only proof of the grade you received.
- An incomplete grade will be given only in unusual circumstances. You must be passing the class at the time of the request for an incomplete, and there must be a serious event that prevents you from completing the class.
- No student will be given a grade lower than the calculated grade. However, I reserve the right to assign a final grade higher than the calculated grade if I feel it is warranted. This is a matter **only** between the particular student and me.
- Unless there is a very good need, please turn off pagers and cell phones during class time. I find it extraordinarily rude to have my lecture interrupted by someone's cell phone ringing. I do understand, however, that there are situations that require someone to be close to a phone.