CSE 262. Programming Languages

Fall 2008

Professor Jeff Heflin

Course Description:
This course will cover the fundamental concepts of programming languages. We will discuss design issues of various language constructs, examine the design choices in some common languages, and critically compare design alternatives. In order to emphasize differences in programming languages, we will learn to write small programs in two distinct languages. When you complete this course, you will not necessarily be an expert in any new languages, but you should have the knowledge needed to choose the best language for any programming task and be able to more easily learn new languages independently.

Course Web Page:
This course is available on Blackboard as CSE-262-01-FL08. Course announcements and assignments will be available there. Blackboard can be accessed via the campus portal or http://ci.lehigh.edu/

Prerequisites:
CSE 17. Structured Programming and Data Structures

Time and Location:
MWF 10:10-11:00am, Christmas-Saucon 303

Textbook:
Tucker, Allen B. and Robert E. Noonan. Programming Languages: Principles and Paradigms *(second edition)*. McGraw Hill, New York, NY, 2007. ISBN-10 0-07-286609-8

Contact Information:

	Professor Heflin	**TA (Alexandra Coman)**
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Office:	Packard Lab 330	Packard Lab, 6th Floor
Office Hours:	M 1:30-3pm, Th 10-11:30am and by appointment	W 3:30-4:30, Th 3-4pm, 5:30-6:30pm
Phone:	610-758-6533	

Grading:

Homework Assignments (4)	20%
Programming Assignments (3)	30%
Midterm	20%
Final	30%

Your professor will use the following base scale for assigning letter grades. This scale gives the minimum grade you could receive for a given score. Depending on the performance of the entire class, your professor may adjust the scale so that you will receive a higher grade. Note, for the purposes of this scale, all fractional grades are rounded down.

92-100:	A	82-87:	B	72-77:	C	62-67:	D
90-91:	A-	80-81:	B-	70-71:	C-	60-61:	D-
88-89:	B+	78-79:	C+	68-69:	D+	0-59:	F

Late Work Policy:
Late work will be docked one letter grade (10% of its total value) for each 24 hour period that it is late. No work will be accepted more than five days late. Exceptions will only be granted if an extenuating circumstance can be proven to your professor's satisfaction.

Academic Integrity:
All graded work is expected to be your own, unless your professor has authorized collaboration in writing. In particular, you are not allowed to ask anyone but your professor or TA for specific help with your homework or programming assignments. However, you are free to discuss the topics and concepts of the course with your classmates, as long as you do not discuss the specifics of any assignment. Examples of violations include, but are not limited to, solving homework problems together, giving and/or receiving program code, and debugging someone else's program. If you are unsure if a particular form of aid is allowed, then check with your professor first. Violation of this policy could result in failure of the course.

Accommodations for Students with Disabilities:
If you have a disability for which you are or may be requesting accommodations, please contact both your professor and the Office of Academic Support Services, University Center C212 (610-758-4152) as early as possible in the semester. You must have documentation from the Academic Support Services office before accommodations can be granted.

Schedule:
This class schedule is only a rough guideline and may change depending on the pace at which we complete the material. All reading, homework and programming assignments will be announced both in class and on the course web page.

Starting	**Lectures**	**Topic**	**Reading**
8/25	2	Overview	Ch. 1
8/29	4	Syntax	Ch. 2
9/8	3	Lexical and Syntactic Analysis	Ch. 3
9/15	3	Names	Ch. 4
9/22	3	Types	Ch. 5
9/29	5	Logic programming	Ch. 15, *supplemental readings*
10/8	1	**Midterm**	
	n/a	*Pacing break Oct. 13-14*	
10/15	4	Semantics	Ch. 7
10/24	4	Functions	Ch. 9
11/3	5	Functional programming	Ch. 14
11/14	1	Memory management	Ch. 11
11/17	3	Imperative programming	Ch. 12
11/24	3	Object-oriented programming	Ch. 13
	n/a	*Thanksgiving break Nov. 26-28*	
12/5	1	Review	*n/a*