CSE 340 - Programming Languages

Spring 2015

1 Personnel

Instructor: Rida A. Bazzi

E-mail:	bazzi@asu.edu
Phone:	480 965-2796
Office:	BY 430
Office Hours:	Monday and Wednesday: 8:45-10:15 and 1:30 - 2:30

Teaching Assistant: Mohsen Zohrevandi

E-mail:	mohsen@asu.edu
Office:	BY 435
Office Hours:	Tuesday and Thursday: 1:00 - 3:00

2 Office Hours

I encourage you to come to my office hours to ask any questions you have about the class material or other general questions. To make the best use of my time and your time, I expect you to come prepared. If your question is about course material, I expect that you have read carefully the relevant sections from the book and/or the posted notes. If your question is about problems from the book, I expect that you have made a serious effort to solve the problem.

3 Communication

All email communication with me or the TA must have a subject field in the following format:

```
CSE340S15:  <actual subject of the message>
```

You should always write your name on all material you submit including email.

4 Prerequisites

CSE 230 and CSE 310.

5 Textbook

Author:	Kenneth C. Louden and Kenneth A. Lambert
Title:	Programming Languages: Principles and Practice, 3rd edition. Second edition can also be used and is much cheaper.
ISBN:	9781111529413

6 Important Dates and Tentative Lecture Topics

Monday		Wednesday	
Jan 12th Lexical Analysis	**1**	14th Lexical/Syntax Analysis	**2**
19th **Martin Luther King Day**		21st Syntax Analysis **Project 1 due**	**3**
26th Syntax Analysis	**4**	28th Syntax Analysis **Homework 1 due**	**5**
Feb 2nd Syntax Analysis	**6**	4th Basic Semantics	**7**
9th Basic Semantics	**8**	11th Basic Semantics **Homework 2 due**	**9**

Monday		Wednesday	
16th	10	18th	11
Basic Semantics		Type Systems	
		Project 2 due	
23rd	12	25th	13
Exam Review		**EXAM 1**	
Mar 2nd	14	4th	15
Type Systems		Type Systems	
9th		11th	
Spring Break		**Spring Break**	
16th	16	18th	17
Type Systems		Expressions and Statements	
		Homework 3 due	
23rd	18	25th	19
Expressions and Statements		Abstract Data Types and Modules	
		Project 3 due	
30th	20	Apr 1st	21
Abstract Data Types and Modules		Procedures and Runtime Environment	
		Homework 4 due	
6th	22	8th	23
Procedures and Runtime Environment		Procedures and Runtime Environment	
		Homework 5 due	
13th	24	15th	25
Exam Review		**EXAM 2**	
20th	26	22nd	27
Lambda Calculus		Lambda Calculus	
		Project 4 due	
27th	28	29th	29
Lambda Calculus		Lambda Calculus / Final Review	
Homework 6 due		**Last day of classes**	
May 4th		6th	
FINAL EXAM 9:50-11:40		**FINAL EXAM 9:50-11:40**	
10:30-11:45 section		12:00-1:15 section	

Exam dates are fixed and will not change. Make sure that your schedule does not conflict with the exam dates. If an exam date conflicts with a religious holiday (in accordance with ACD - 304-04) or other university sanctioned activities (in accordance with ACD 304-02) you should let me know at least 2 weeks before the exam date in order to schedule a makeup exam. Absence for an exam due to medical reasons should be properly documented by a physician.

7 Homeworks and Problem Sets

In addition to the homeworks, I will be distributing problems with solutions including old exams. I expect that you will be working on these problems to solve them and that you will ask for help if you have any difficulty. Working on the problems is important as a preparation for the exams. Even though I will be providing solutions, you should look at the solution only after you have solved the problems or made a serious effort to solve the problems. Your performance on the exams will be negatively affected if you do not work seriously on the problem sets. These problem sets are in additions to the homeworks. Unlike homeworks, problems sets are not graded. Remember that one cannot learn the material by simply reading solutions; one should actively work on solving problems.
I and the TA will be more than happy to answer questions about problem sets.

8 Workload

This is a demanding class and requires consistent effort on your part:

1. You will be writing thousands of lines of code in this class and you will have to read a lot of code that I or the TA wrote. This is different from what most of you have been exposed to so far.

2. You will have to handle non-trivial abstract concepts, new programming paradigms and complex implementation issues. This requires consistent effort on your part.

If you put the effort, you will learn a lot and succeed in this class. It is really worth it. If you do not put the effort, you cannot succeed in this class.

9 Grading

- Class participation: 5.5%

- 2 Exams: 24% (12% each)

- 6 homeworks 18% (3% each)

- 4 Programming assignments: 32.5% (2.5% first project and 10% each for the remaining projects)

- 1 **Comprehensive** final exam: 20%

The thresholds for assigning letter grades are the following: A+: 97, A: 93, A-: 89, B+: 86, B: 82, B-: 78, C+: 74, C: 70.

If circumstances warrant it, I might curve the grades, but my experience has been that it is not much needed.

10 Late Submission

There is a 10% penalty per day for late submission for projects. The number of days is rounded up to the nearest integer. A maximum of 3 days late is allowed. No credit will given for an assignment submitted more than 3 days late. If you have a documented medical emergency *of a duration that can affect your ability to finish an assignment*, I will consider giving an extension or a makeup assignment. Note that I usually give at least 3 weeks for each project (other than the first project) and to feeling well for a day or two does not count as a duration that can affect your ability to finish an assignment.
No late submissions is accepted for homeworks.

11 Attendance

Attendance and class participation are required. Attendance counts for 5.5% of the grade. You are allowed 3 absences with no valid excuse. If you miss more than 3 classes with no valid excuse, you will loose 0.75% of your final grade per absence (up to a maximum of 5.5%). Absence due to religious holiday (in accordance with ACD - 304-04) or other university sanctioned activities (in accordance with ACD 304-02) is considered absence with a valid excuse. You should let me know one week in advance of such absence.
Absence due to medical reasons should be properly documented by a physician.

12 Cell phone and recording devices usage

I expect you to set your cell phone to silent/vibrate mode while in class.You can tape record the lecture, but you should let me know first if you plan on doing that.

13 Important ASU rules and regulations

You should be familiar with ASU's Student Service manual, especially (SSM 104-02)

14   Special Accommodations

Students requesting disability accommodations should register with the Disability Resource Center (DRC) and present the instructor with appropriate documentation from the DRC.

15   Academic Integrity

- The highest standards of academic integrity are expected of all students.

- **ZERO TOLERANCE: ANY VIOLATION of academic integrity policy WILL RESULT IN A GRADE of E in the class and reporting the violation to the Dean's office**

- Violations of academic integrity include, but are no limited to, copying, cheating, fabrication, tampering, plagiarism, or facilitating such activities.

- Under no circumstances you should share solutions or partial solutions to the programming assignments. Providing code and receiving code are violations of the academic integrity policy.

- Tools for detecting plagiarism will be used in the enforcement of the academic integrity policy.

- If you are not sure if something is allowed or not allowed, you should ask me.

16   Subject to Change Notice

Reasonable effort will be made to follow the syllabus, but the syllabus can be modified if circumstances warrant it